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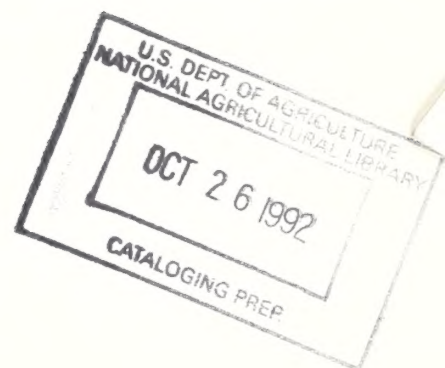
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# A 1989 Global Database for the Static World Policy Simulation (SWOPSIM) Modeling Framework

John Sullivan  
Vernon Roningen  
Susan Leetmaa  
Denice Gray



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### Abstract

This report documents a 1989 global database for the static world policy simulation (SWOPSIM) model building framework. A consistent set of data on production, consumption, trade, prices, and support has been assembled in the form of five large global models. Using SWOPSIM aggregation program, data from these global models can be aggregated to construct smaller global models which suit user needs while at the same time retaining global net trade balances. The global models view the world in different ways with four of them emphasizing regional detail in Europe, the Western Hemisphere, Asia, and Africa. The report documents the base data and parameters for the models as well as the programs used to prepare and manipulate their data.

**Keywords:** Agricultural trade, database, trade policy, producer subsidy equivalent, regional trade model, SWOPSIM, world trade model.

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## Introduction

The SWOPSIM modeling framework has been in use since 1986 but many changes have been made in the framework and supporting data since then. In part, changes occurred with the adoption of improvements in computer software and hardware. Many changes were also made in model specification in response to experiences of users. Finally, more recent data are now available. With this publication of a consistent 1989 database, the evolution of the SWOPSIM framework is complete.

## Characteristics of SWOPSIM Models

SWOPSIM is a modeling framework, not a model in itself. It is a software package that can be used to build various types of simple standard global models linked by trade. All standard models created by the SWOPSIM framework have certain characteristics.

**Static:** SWOPSIM models are static. They calculate the implications of policy reform or other economic shocks after full model adjustment, but will not give the time path of adjustment. Stocks are not modeled and therefore assumed unchanged. SWOPSIM models can be used for counterfactual analysis and for projections to a future equilibrium state.

**Nonspatial:** SWOPSIM models provide information on the net trade flows of a country or region but do not normally provide trade flows among countries. In other words, importers are assumed not to distinguish commodities by source of origin, and domestic and traded goods are assumed to be perfect substitutes in consumption.

**Multi-product, multi-region:** The SWOPSIM framework can build multi-product, multi-country models to a maximum of 60-70 products and 38 regions.<sup>1</sup> The actual size of a model is governed by data availability and computer hardware restrictions. The data set used for most SWOPSIM models at the Economic Research Service (ERS) has 22 products, covering the grain-oilseeds-livestock complex for up to 36 countries/regions of the world (108).<sup>2</sup>

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<sup>1</sup>The framework can construct a single-commodity global model from a data set. Also, multi-product, multi-country models can be assembled ceteris paribus, holding values for selected products or countries constant.

<sup>2</sup>Underscored numbers in parentheses cite sources listed in the References.

Partial equilibrium: SWOPSIM models normally examine relationships within a sector (e.g., agriculture), not resource shifts between sectors (e.g., agriculture versus other sectors). Factor prices and other general equilibrium conditions are assumed to be fixed in the standard framework.

Synthetic: SWOPSIM model parameters (elasticities and technical coefficients) are not estimated with the SWOPSIM framework; rather, they are obtained from the literature (17) or can be estimated econometrically. However, theoretically valid behavioral relationships can be imposed on the supply and demand elasticities actually used. These relationships contribute to theoretical purity of the system and, from a practical solution viewpoint, encourage model stability.

Policy-oriented: SWOPSIM models are designed to analyze the economic implications of policy changes that can have a global impact. They are more suited to study total liberalization of all policies, though they can be used for studies of partial reform as well.

A policy is usually represented in SWOPSIM models by a fixed price wedge: a wedge between the traded price and the domestic incentive price. The policy price wedge data are obtained from ERS calculations of producer and consumer subsidy equivalents (110) where a wide range of support policies were translated into a common measure. Policies can also be implicitly introduced into SWOPSIM models through price transmission parameters that regulate the transmission of world price changes to the domestic economy, and by shifting supply equations to capture production control policies. Policies such as income supplements may be included with appropriate shifts in demand schedules.

Spreadsheet based: Data, parameters, and solution output from SWOPSIM models are maintained in spreadsheets on personal computers (PC's). This requires a potential SWOPSIM user to know spreadsheet technology and have an understanding of the PC Disk Operating System (DOS).

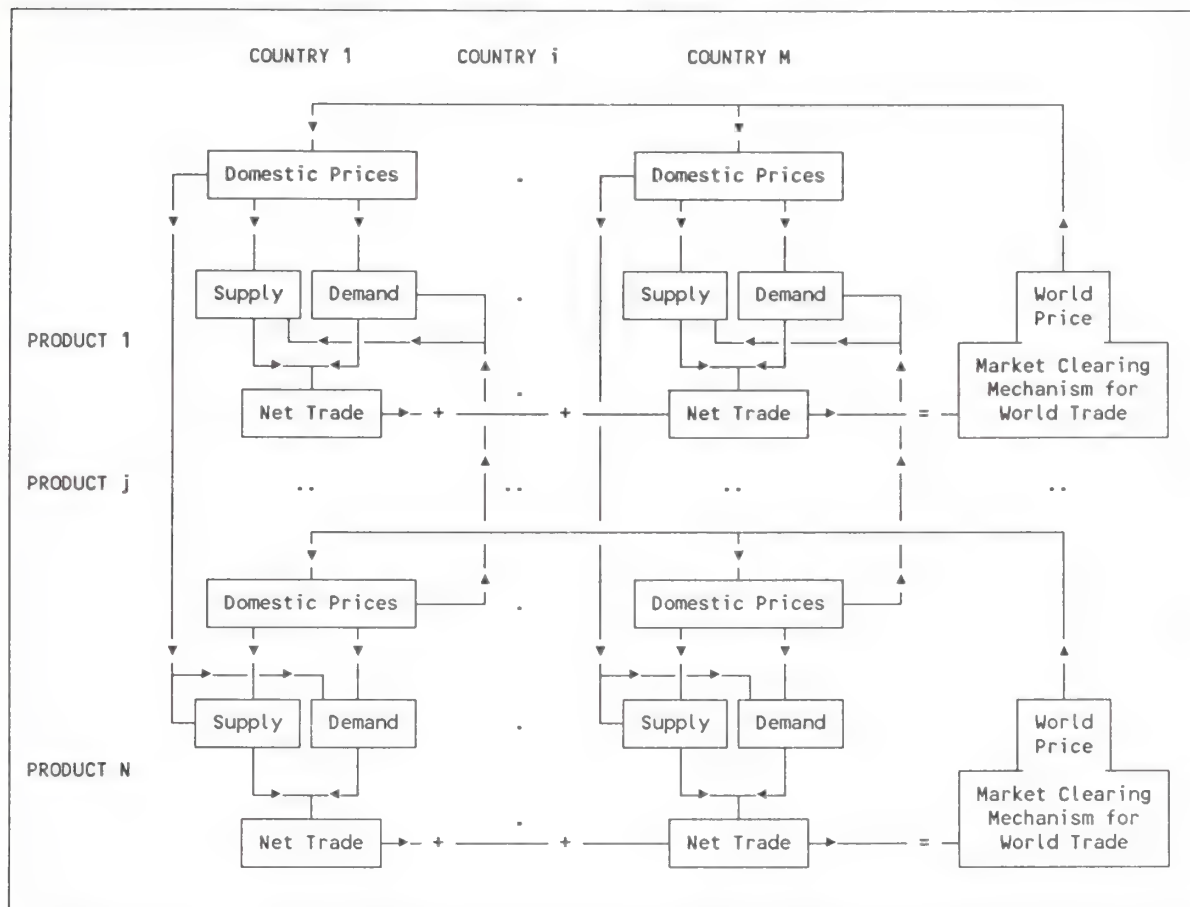
The SWOPSIM framework consists of computer programs that perform repetitive operations on data and a standardized model maintained in spreadsheets. The programs write and run spreadsheet macro commands which, in turn, carry out spreadsheet data manipulations and calculations. Series of programs carry out their tasks under the command of DOS batch programs.

Although the user does not have to write programs or macros to use the SWOPSIM framework, some knowledge about the working medium is helpful, especially when things go wrong. Experience has shown that many of the problems for potential users arise from an inadequate understanding of spreadsheets or PC DOS. Knowledgeable spreadsheet users, on the other hand, have quickly adapted the SWOPSIM framework to their own research agenda and have been able to modify default ERS SWOPSIM models to their particular research needs.

## The Economics of SWOPSIM Models

The economics of models created by the SWOPSIM modeling framework assume that a product sector in a country can be represented by a set of simple supply, demand, and trade equations. The economic structure of an M country, N product SWOPSIM world model is shown in figure 1 in terms of information flows between products and countries.

Figure 1--Economic structure of SWOPSIM world models



A world market-clearing mechanism clears world trade for each product, yielding a world price. This feeds back into domestic prices which drive product supply, demand, and net trade. Net trade summed across countries, goes to world market-clearing mechanism again. Cross product linkages occur within countries via prices and direct quantity relationships.

A linked world model is created by creating these equations for all countries, initializing the model to reproduce observed data, and allowing world markets for all products to clear. For each region  $i$  and each product  $j$  in the model, demand ( $D$ ) and supply ( $S$ ) relationships are modeled as:

$$D_{ij} = D_{ij}(CP_{ij}, CP_{ik}, QS_{ih}, TD_{ij}) \quad (1)$$

$$S_{ij} = S_{ij}(PP_{ij}, PP_{ik} \text{ or } CP_{ik}, TS_{ij}) \quad (2)$$

where  $CP_{ij}$  and  $PP_{ij}$  are domestic incentive prices facing consumers and producers, respectively, of product  $j$  in country  $i$ .  $CP_{ik}$  and  $PP_{ik}$  are consumer and producer prices of products related to product  $j$  in either consumption or production, respectively.  $QS_{ih}$  in the demand function accounts for the use of product  $j$  as an intermediate input into the production of product  $h$ .  $QS_{ih}$  is typically a meat supply quantity that enters into demand functions for feed products.  $PP_{ik}$  in the supply function represents substitution possibilities for the producer.  $TD_{ij}$  and  $TS_{ij}$  in the demand and supply functions account for policies or economic factors that might shift the functions over time.

Trade is the difference between domestic supply and total domestic demand (absorption). World markets clear when net trade of a product across all regions sums to zero:

$$\sum_i T_{ij} = \sum_i S_{ij} - \sum_i D_{ij} \quad (3)$$

The policy structure is embedded in equations linking domestic and world prices. Domestic incentive prices depend on the levels of consumer and producer support (modeled in terms of consumer and producer support price wedges  $CSW_{ij}$  and  $PSW_{ij}$ ), and on world prices denominated in local currency:

$$CP_{ij} = CSW_{ij} + F(E_i * WP_j) \quad (4)$$

$$PP_{ij} = PSW_{ij} + G(E_i * WP_j) \quad (5)$$

where  $E_i$  is the exchange rate of  $i$  with respect to the U.S. dollar, and  $WP_j$  is the world price of product  $j$  measured in U.S. dollars. Functional relationships  $F(\ )$  and  $G(\ )$  allow the transmission of world to domestic prices to be less than or equal to 1. If equal to 1, then 100 percent of a world price change is transmitted domestically. A value of less than 1 indicates that the government intervenes to cushion domestic producers and consumers from experiencing the full change, which in turn increases the level of price adjustment at the world level outside of the protected country. SWOPSIM convention defines subsidies (payments to producers or consumers) as positive numbers; negative subsidies or taxes are collections from consumers and producers.

Support of any type is captured by calculating its equivalent in two types of wedges. First, there is a market support wedge where a trade payment (tariff or subsidy) or trade quota creates a price wedge between domestic and world prices. Second, there can be a direct payment wedge to producers or consumers which does not affect the observed market price but which is part of the domestic incentive price.

The SWOPSIM framework creates supply and demand equations with a constant elasticity form. The (constant) elasticities of feed demand are the shares of a product fed to produce a livestock product. Theoretical and practical constraints on model structure such as symmetry conditions or cross price relationships derived from duality theory are imposed on the elasticities actually used in the models (29,30).

SWOPSIM country models are initialized to a base year; that is, equation intercepts are calculated which fit each equation to base year parameters and data. A global model is then assembled where global trade for each product is balanced. This means that a global SWOPSIM model, before any external shock is administered, replicates the base data. Recalculating the spreadsheet to solve the model gives no change. This is the final test of the readiness of a SWOPSIM model.

Exogenous shocks are administered via changes in support wedges in price linkage equations ((4),(5)) or shifts in supply and demand equations ((1),(2)). Then, if a spreadsheet is recalculated, disequilibria caused by these shocks start a global model iterating to a new price-quantity balance where world markets for all products are again cleared.



After a global model solution has been obtained, several types of indicators can be calculated comparing the new equilibrium state to the base state. Standard Marshallian measures of producer and consumer surpluses and a host of other economic indicators are computed to study the economic welfare implications of policy changes (34,83,94).

Many of the augmentations to the SWOPSIM framework have relaxed some of the above characteristics and modified the economic structure of models. For example, Dixit and Roningen (7) modified the SWOPSIM framework to allow for bilateral trade flows using the Armington demand assumption. Similarly, Krissoff and Ballenger (50) relaxed the partial equilibrium assumption by including product aggregates defined to cover the whole economy and by examining agricultural and nonagricultural policy changes. Liapis (63) has added input sectors to agricultural product sectors to account for input markets in liberalization experiments.

The SWOPSIM framework leaves the user with models in spreadsheets, allowing the researcher flexibility in adapting the standard economic models to particular research needs, as evidenced by the variety of alternative modeling exercises cited in the references.

### Overview of the Database

The Economic Research Service (ERS) Staff Report entitled Documentation of the Static World Policy Simulation (SWOPSIM) Modeling Framework was published in September 1991 (96) as the final documentation of the framework. It includes detailed appendices of program listings, an explanation of variable definitions and model equations, a listing of data and parameters for an example of a SWOPSIM model, screens of computer tutorials on SWOPSIM model building, illustrations of the computer programs making up the SWOPSIM framework, and installation instructions. Every step of the SWOPSIM model-building process from initial model specification to the printout of model solutions is covered in the report. All the SWOPSIM programs described in the documentation are contained on a single 3.5" computer diskette. In addition, the diskette contains computer tutorials which take the user through all the steps of building both net trade and Armington bilateral trade models. A three-region, 22-commodity demonstration model which can be used for policy analysis is also provided.

While the SWOPSIM documentation and diskette are enough for researchers to get started with the SWOPSIM modeling system, there are a number of modeling issues, which were addressed in earlier SWOPSIM publications, that may be of interest to those who wish a more detailed understanding of the system. These have just been assembled along with the documentation report as a shrink-wrapped special package of seven reports known as SWOPSIM PKG-9.<sup>3</sup> These

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<sup>3</sup>The seven publications are entitled Elasticities in the Trade Liberalization Database; Joint Products in the Static World Policy Simulation (SWOPSIM) Modeling Framework; Using Producer and Consumer Subsidy Equivalents in the SWOPSIM Modeling Framework; Economic Welfare Analysis: An Application to the SWOPSIM Modeling Framework; Economic Implications of Agricultural Policy Reforms in Industrial Market Economies; Overview of the Static World Policy Simulation (SWOPSIM) Modeling Framework; and Documentation of the Static World Policy Simulation (SWOPSIM) Modeling Framework.

seven reports provide sources for the elasticities as well as detailed descriptions of the treatment of joint products, producer and consumer subsidy equivalents, economic welfare analysis, and model results from a policy analysis exercise concerning the economic implications of agricultural policy reforms in industrial market economies. An overview of the SWOPSIM modeling system is also provided to help potential users understand the basic features of the SWOPSIM modeling framework and evaluate its suitability for their problems.

SWOPSIM models require globally consistent data. While modelers have always been encouraged to develop their own databases for their research problems, in practice many researchers have relied on databases developed for SWOPSIM at ERS. The publication and associated electronic data product **A Database for Trade Liberalization Studies** provides 1984 and 1986 databases for 22 commodities and 36 regions of the world (108,109). This publication documents an updated and expanded SWOPSIM database for 1989.

Following the earlier database publication, relevant parameters in the current modeling database are documented. These include demand and supply elasticities, feed shares, and base quantity, price, and support data.<sup>4</sup> The databases provided within this report should not be considered complete. Rather they are extremely helpful starting points, in that they represent globally balanced world models that can be easily modified by the individual researcher with additional data.

The next section of the report will provide an explanation of the format of the data presented in appendices. While the electronic version of this database will contain the actual files used in SWOPSIM model construction, this printed copy reproduces only a condensed version of the individual model files. These tables do, however, contain all the relevant data. They are produced by using two of the SWOPSIM output programs, EOUT and BOUT. EOUT produces the tables of elasticities and feed shares, while BOUT prints out the base quantity, price, and support data associated with a country/region model.

The following section of this report documents the programs used to move quantity supply and distribution data from the TS-VIEW (Time Series VIEWer) version of the FAS 189-Country Database to base data spreadsheets for SWOPSIM models (26,111). The menu-driven software system of TS-VIEW displays a time series graph of any of the 12 balance sheet variables for up to 189 countries or regions in the USDA/FAS PS&D (production, supply, and distribution) database. It also fits regression trendlines, displays tables of data, and downloads subsets of the data in spreadsheet-readable files.

The TS-VIEW system has the facility to download subsets of the data in spreadsheet-readable files. It also has the desirable feature of accompanying programs that can be run to aggregate countries as well as commodities. In this way, batch programs can first condense the 189-country, 66-commodity TS dataset into a 22-commodity dataset used for standard SWOPSIM models. Then,

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<sup>4</sup>The data are not as complete for the support measures as for the other data. This is because we rely on the producer and consumer subsidy equivalent database maintained by ERS (110), and while it expands its commodity and country coverage with each update, it still falls far short of the quantity data coverage provided by the longstanding USDA/FAS PS&D database (111).

other programs are used to automatically aggregate this dataset to the 35 or so regions in a typical SWOPSIM world model database.

Databases contained in this report are not the only possible aggregations of global data, but rather are ones useful for work at ERS. The base data spreadsheets prepared for SWOPSIM models now include seven other commodities in addition to the basic 22 that are used for standard SWOPSIM models (see Appendix 1 for details.)

The references section lists a wide variety of studies where modeling exercises were done with the SWOPSIM modeling framework. Many of the studies used the published databases for 1984 and 1986 as starting points, but then modified them to suit the particular research issue at hand. The database documented in this report should be equally useful.

The first Appendix gives the regional coverage of the databases documented in this report as well as their relationship to the 189-country global TS-VIEW PS&D database. The practical constraints of the SWOPSIM modeling framework limit the number of individual countries/regions possible in a world model to approximately 40.

A series of appendices in this report present summary tables of the countries/regions in a global database. Five global model databases--WD89, EU89, WH89, AS89, and AF89--are presented, each with a different level of regional detail. WD89 is a standard world model data breakdown similar to the earlier published database, while the other four databases allow increased emphasis on countries in different regions of the world. These four regions are Europe, the Western Hemisphere, Asia and the Pacific Rim, and Africa. Appendix 1 gives an annotated concordance between the 189-country TS-VIEW database and the countries/regions in the five global model databases.

As can be seen by examining the data for the individual countries in the appendices, there are many small countries with sparse data. SWOPSIM aggregation programs are especially helpful if country detail can be ignored. Once a larger world model has already been constructed and balanced, it is a relatively simple matter for a SWOPSIM user to assemble a model with fewer regions which leaves the countries of interest as they are, but aggregates many smaller or less important (to the individual modeling exercise) countries into single regions.

An example of this process is contained in Appendix 2--the database SW89. This database is an 11-country/region aggregation of the WD89 database, which is used to model issues of most importance to industrial market economies, which comprise seven of the regions in the model. The four aggregate regions in SW89 combine the other 26 regions in the WD89 database. The developing exporters region (DE) aggregates six countries: Brazil, Argentina, Indonesia, Thailand, Malaysia, and the Philippines. The newly industrialized Asia region (DA) aggregates three regions: South Korea, Taiwan, and other East Asia. The centrally planned economies region (CP) aggregates three regions: Eastern Europe, Soviet Union, and China. The other developing importers region (RW) aggregates the other 14 regions in the larger world model, including the rest-of-world balancing world trade region.

An immediate use for one of the alternative world model databases comes to mind by noting the aggregate regions in WD89 and SW89 pertaining to Eastern Europe. What were once relevant aggregations in 1989 no longer apply. In the

case of Eastern Europe, the individual country components are available in the EU89 database for those interested in working with these individual countries.

The final appendix lists the programs used to manipulate and aggregate TS-VIEW data to global SWOPSIM model databases. All work is done using a combination of DOS batch programming, TS-VIEW utilities, and spreadsheet macros. The programs documented allow the individual researcher to make full use of the database building blocks provided with this publication.<sup>5</sup> The appendix also documents a few programs which help the user to balance trade for a world model and calculate feed demand elasticities consistent with base data and external information about a country.

Data and parameters for SWOPSIM models are maintained in spreadsheets on a subdirectory named after the model. In addition to model data and parameters, this subdirectory will also contain many template spreadsheets and other files related to model operations (96). For each country/region in a standard SWOPSIM model, there are three essential files containing model information. First, there is a "t" file (e.g., DEMOtUS.CAL) which contains the base quantity data for the products in the model. This data includes production, consumption, and trade quantities. Second, there is the "s" file (e.g., DEMOsUS.CAL) which contains price and support data for the products. This file is quite large because it includes many derived calculations which provide checks on the support measures used. Finally, there is the "b" file (e.g., DEMObUS.CAL) which contains the model data itself. Here are found the supply and demand elasticity matrices with relational formulas, if they exist. Also the "b" spreadsheet file contains key price and quantity data (taken from the "s" and "t" files) as well as formulas for economic indicators that are used to understand and evaluate a solution. Most important, the "b" file contains model equations which are initialized to the base period data. Many of the programs in the SWOPSIM modeling framework help to create these three spreadsheet files and carry data from one file to another.

Because there is a large amount of data for a country/region in a typical SWOPSIM model, it is important to be able to examine the data in printed form in an efficient manner. This is done with SWOPSIM programs which use the "linkage" capability of the spreadsheet to draw numbers from many spreadsheets into one spreadsheet for a condensed report. Output templates with linkage formulas are used as "report writers" for this purpose. These "report writers" are driven by simple DOS batch programs.

Data and parameters presented in the appendices of this report are given in the condensed "report form" produced by the output of these SWOPSIM programs designed to present a maximum amount of information in a minimum number of pages. An experienced user can look at these reports and know the essence of what is in a SWOPSIM model even though a complete printout of all the data, parameters, and equations would take many more pages. One report procedure presents the elasticities for a SWOPSIM model on one page. A second procedure lays out all of the essential price, quantity, and support data for a country/region on one page. The format of these output reports is explained and illustrated in detail in the following section of this report.

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<sup>5</sup>The simple techniques using DOS batch files, TS-VIEW utility programs, and spreadsheet macros to manipulate data can be readily adopted by someone with an elementary knowledge of programming. The combination and interaction of these simple tools produces powerful results.

## Explanation of the Data Format

The data are presented in appendices in summary tabular form. There are two pages for each new country/region. Details about the data are contained in SWOPSIM documentation (96). The data presented include elasticities and base period price, quantity, and support numbers.

The first page contains elasticities for supply, demand, and feed demand (shares of feed used in the production of each animal product such as beef). This page is the standard output of a SWOPSIM program EOUT that prints the elasticities in a country model. The second page contains base period data on quantities, prices, and support that are incorporated in a country/region model. This latter page is produced by the SWOPSIM program BOUT. The actual data called upon by EOUT and BOUT and placed in the tables in the appendices, lie in the particular model, support, and base data spreadsheets associated with a country component of a global model.

### Elasticities and Feed Shares

Figure 2 shows an annotated layout of an elasticity page produced by the program EOUT which is used to print all of the model elasticities in the appendices. Model parameters are found in three blocks, outlined by double-lined boxes. The first box at the top of figure 2 gives the supply elasticities, the second in the middle of the figure gives final demand elasticities, and the final box at the bottom gives the feed share and other intermediate demand elasticities. Within the double-lined boxes, single-line boxes mark out subsets of elasticities for product groups.

As explained in the SWOPSIM documentation, symmetry conditions are forced on the SWOPSIM models presented in this report. This means that elasticities in the lower left halves of the supply and demand matrices are calculated from base data and upper right half elasticities. In addition, formulas for feed price effects on animal product production, oilseeds, and the production of dairy products are used to calculate elasticities in the model that appear in the appendices.

Information outside the double-lined boxes in figure 2, derived from model data, summarize model data in various ways. For example, the row sums give the homogeneity condition of the elasticities, which is relevant to model stability, among other things. The self-sufficiency ratios (production divided by consumption) summarize product trade positions, while the values of production and exports gauge model sector sizes.

Below (and to the right of the demand elasticity matrix) are the definitions of the 22 products in the standard SWOPSIM model. Below that (in the lower right hand corner) are some numbers and parameters that appear on model spreadsheets, and can be used for projections and in selected indicators calculated after solutions are obtained. These parameters include country-wide transmission elasticities, income and population growth rates, income, population, and per capita income for a country/region.<sup>6</sup>

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<sup>6</sup>Many of these parameters were estimated or calibrated for earlier versions of the SWOPSIM database where projections were done; they might no longer be valid. Users are urged to validate all parameters by use.



Figure 2--Page of Model Elasticities and Parameters

[illegible][illegible]

The bottom left part of the elasticity page contains feed shares (share of a feed product going to the production of an animal product), fluid milk shares (share of the quantity of milk production going to milk products), and the share of oilseeds going to produce meals and oils. These shares all have the same model function: they ensure that if the production of a product is changed, the demand for the input is changed in proportion.

To the right of the feed demand matrix (at the bottom of the page) are some ratios and percentages to help the user gauge the implication of the feed shares along with the base model data. Feed ratios (the quantity of model feed consumed per quantity of animal product produced) present the user with a rule of thumb assessment of the implications of the feed shares. These calculated ratios should be in a "reasonable" range taking into account the relative importance of feeds in the model in the feeding mix (the models do not contain all feeds). Below the feed shares are the calculated distribution (by weight) of the model feeds in the feeding mix for each animal product. Below that is the estimate of the average protein percentage of the model feed mix in the production of each animal product. This percentage is calculated assuming the following protein percentages in model feeds: wheat - 10 percent, corn - 9 percent, other coarse grains - 12 percent, soymeal - 44 percent, and other meals - 40 percent. In interpreting these figures, recall the models do not contain other feeds such as roughage, grass, or protein supplements.

An important question is where the feed shares themselves come from. Ideally, one would want to have data on feed quantities actually used for the production of each animal product. The OECD (79) assembled such data for its modeling effort in the early 1980's. The OECD feed share data, plus ERS analyst judgment served as the basis for the feed shares appearing in the earlier SWOPSIM data publication (108,109). Users who want to use different feed shares, or any other different parameters for that matter, are encouraged to do so.

In this publication, the feed shares have been calculated from the base quantity data, information from the FAS PS&D database on the total share of product used as feed, supplementary information about energy content and protein content of feeds contained in the model, and manual adjustments to account for the relative importance of feeds such as roughage, grass, and supplements that are not in the model (for example, if beef is grass fed, assume that most of the corn feed goes to produce other products besides beef that appear in the model.) A spreadsheet calculation sheet independently estimates feed shares from the data cited above.<sup>7</sup> However, as is true with supply and demand elasticities, user judgment should apply. The feed share calculation scheme followed provides feed shares that are consistent with the actual data used in the model and a logical scheme which uses external information.

The modeling philosophy followed in creating or estimating or borrowing (from various studies) parameters for SWOPSIM models is that the parameters should, to the greatest extent possible, be consistent with model data and economic and physical theory. To put it simply, a minimum of data, supplemented with appropriate formulas, should be used to create a maximum of model. This

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<sup>7</sup>The program FEEDCHCK, which calculates these feed shares, is documented in Appendix 7.

philosophy is behind the formulas that supply many of the parameters for model spreadsheets as well as the calculation of feed shares.

### Base Quantity, Price, and Support Data

Figure 3 shows the page printed out by the BOUT program. The base data page includes all the key information that is used to initialize a model in the base period. The top half of the page gives base quantity and price data, while the bottom half gives support information in the form of model price wedges--producer and consumer subsidy equivalents (30). Summary information is presented at the bottom of the base data page. The variable names used in the model appear above the data columns along with verbal descriptions. The variables come from the spreadsheets for the country base (b) model as well as the country support (s) spreadsheet. The full variable definitions are contained in the documentation publication (96), and are summarized at the end of this section.

Some of the data shown on the page are key model data while other items are derived calculations helpful in understanding the model and its data. For example, the trade price (TDPRICE) in the top half of figure 3 is a derived price from the support spreadsheet that calculates what the trade price would be, given the observed market price and market support. The producer shares of consumption (PRSHARE) are ratios used in the support spreadsheet to calculate a consumer price from a market price. Projection parameters such as supply growth rates (SUPGROW) and income elasticities (INCELAS) are used mainly for SWOPSIM projections. The TDS (Trade Distorted by Support) measure provides an initial estimate of the trade distorted by a country's support (92,93).

The base year price data used in the database are in five columns of figure 3 labeled World, Market, Producer, Consumer, and Trade. The first column contains representative world reference prices for each commodity. The source of these prices can be found in figure 4.

The second column, "Market," contains market prices at the producer level. These prices, taken from the Producer Subsidy Equivalent (PSE) database, are the prices received by the producer in each country (110). Where this price was not available in the PSE database, the world reference price was used as a proxy.

The producer price, reported under "Producer," is a derived producer incentive price rather than a published price. It is the sum of the trade price, at the producer level, plus the per unit PSE, in dollars per metric ton. Thus, it represents an average unit value received by the producer from the sale of commodities plus transfers received via government programs. The PSE includes both a level of market support and transfer payment to producers. The trade price used for this calculation is, in turn, derived by subtracting the market price component of the PSE from the market price at the producer level.

The consumer price, "Consumer," is also a derived price, constructed from the trade price, the consumer subsidy equivalent (CSE), and a fixed marketing margin PRSHARE between the producer level market price and the commodity wholesale or retail price.

Finally, the trade price, "Trade," is a derived price obtained by subtracting the market component of the PSE from the market price at the producer level.



Figure 4 - World Reference Prices, Conversion Factors, and Product Codes  
for a Standard 22 Product SWOPSIM Model

1989 World price	Published price			Product used for world price	Unit	Factor used for conversion to U.S.\$/MT
WPRICE	1984	1986	1989			
BF 2567	103.11	94.88	116.46	Beef	US cents/lb.	22.04622
PK 2176	2122.18	2341.79	2176.28	Pork	US\$/MT	1
ML 2321	87.70	92.58	105.32	Lamb	US cents/lb.	22.04622
PM 1039	1225.91	1083.77	1039.19	Poultry Meat	US\$/MT	1
PE 1696	2061.01	2144.76	1696.86	Poultry Eggs	US\$/MT	1
DM 272	12.29	11.30	12.37	Milk - whole	US\$/CWT	22.04622
DB 2866	93.93	115.14	130.00	Butter	US cents/lb.	22.04622
DC 3009	2774.74	2948.86	3009.81	Cheese	US\$/MT	1
DP 2326	90.90	80.64	105.51	Milk Powder	US cents/lb.	22.04622
WH 169	4.15	3.13	4.61	Wheat	US\$/bu.	36.7437
CN 111	3.45	2.23	2.83	Maize	US\$/bu	39.368
CG 105	118.19	82.41	105.94	Sorghum	US\$/MT	1
RI 320	252.25	210.17	320.33	Rice	US\$/MT	1
SB 275	282.08	208.42	275.00	Soybeans	US\$/MT	1
SM 247	197.17	184.75	247.33	Soybean Meal	US\$/MT	1
SO 431	725.17	342.42	431.50	Soybean Oil	US\$/MT	1
OS 630	349.76	324.76	630.00	Groundnuts	US\$/MT	1
OM 200	187.50	166.00	200.42	Groundnut Cake	US\$/MT	1
OO 774	1016.67	569.40	774.80	Groundnut Oil	US\$/MT	1
CT 1674	80.94	47.94	75.95	Cotton	US cents/lb.	22.04622
SU 282	5.20	6.05	12.81	Sugar	US cents/lb.	22.04622
TB 3844	185.60	163.66	174.37	Tobacco	US cents/lb.	22.04622

Code	Product-----	Source of World Reference Prices 1/ -----
BF	Beef and veal	IFS - 76kb - All Origins (US Ports)
PK	Pork	FATUS - United States (Import Unit Value)
ML	Mutton and Lamb	IFS - 76pf - New Zealand (London)
PM	Poultry - Meat	FATUS - United States (Export Unit Value)
PE	Poultry - Eggs	FATUS - United States (Export Unit Value)
DM	Dairy - fresh Milk	ERS - US Milk Price
DB	Dairy - Butter	IFS - 76fl - New Zealand (London)
DC	Dairy - Cheese	FATUS - U.S. (Import Unit Value)
DP	Dairy - milk Powder	United States (Average Price)
WH	WHeat	IFS - 76d - United States (US Gulf Ports)
CN	CoRn	IFS - 76j - United States (US Gulf Ports)
CG	other Coarse Grains	IFS - 76tr - United States (US Gulf Ports)
RI	Rice	IFS - 76h - Thailand (Bangkok)
SB	SoyBeans	IFS - 76jf - United States (Rotterdam)
SM	SoyMeal	IFS - 76jj - United States (Rotterdam)
SO	SoyOil	IFS - 76ji - All Origins (Dutch Ports)
OS	Other oilSeeds	IFS - 76bh - Nigeria (London)
OM	Other Meals	IFS - 76bj - All Origins (Europe)
OO	Other Oils	IFS - 76bj - West Africa (Europe)
CT	CoTton	IFS - 76f - Liverpool Index
SU	SUgar	IFS - 76ia - Caribbean (New York)
TB	ToBacco	IFS - 76m - United States (All Markets)

IFS - International Financial Statistics from the International Monetary Fund

ERS - Economic Research Service - U.S. Department of Agriculture

FATUS - Foreign Agricultural Trade of the United States - ERS Periodical

1/ World reference prices are sourced from international published sources when possible. Standard SWOPSIM models use price units of \$/MT (U.S. dollars per metric ton). The conversion factors allow conversion to units typically used in USDA publications concerning U.S. agriculture. Prices within individual countries, on the other hand, usually come from country sources used for the calculation of country support information.



The middle section of figure 3 gives support measures in various forms. Support is entered into the model as price wedges for production, consumption, exports, and imports. The US\$/MT numbers at the left are those actually used in a model. To the right, the price wedges are presented in percentage form while farther to the right, the support information is presented as producer and consumer subsidy equivalents. Budget wedges, used to track the budget implications of support changes in SWOPSIM models, are then presented. The final numbers in the middle section give set-aside shifters. These are calculated independently and inserted into SWOPSIM models to represent the effect of supply controls in effect that accompany support in some countries. When support is removed in SWOPSIM models using the FORMULA program, the set-asides are also removed (96).

Finally, the bottom section of figure 3 gives summary information about a particular country/region model. The support summary on the left gives percentage measures for aggregate sectors.<sup>8</sup> Information to the right sums some base data information and gives the exchange rate used in the support worksheet. The base data page also includes the date of the last update.

Elasticity and base data in the appendices are shown for each country/region model only with its first appearance in a global model. For example, data for the United States are presented in Appendix 2 in model WD89. Although other global models also include the United States, data are not repeated subsequently. Aggregate region models present particular problems of which the user should be aware. In some cases, support in regional models will be a representative country in a region rather than the aggregate support of all countries in a region. The RW (rest-of-world) region in each global model may be an aggregate of countries but it also is a balancing region in the model to ensure that global exports for each product sum to global imports.

SWOPSIM documentation (96) lists the definitions of all variables in country/region spreadsheets, including base data in this report. These lists are repeated for the country model ("b") and support ("s") spreadsheets.

### Variables in the Country Base (b) Model Spreadsheet

Columns B through CU of SWOPSIM country model spreadsheets contain base data variables, formulas calculating indicator variables, equations calculating model variables, constants initialized to base data (by the program EQUATION), and variables representing policy levels. Columns to the left of the variable name give summary information about the variable. The definitions of these columns are as follows:

#### Column I (type of variable)

B = Base data, I = Indicator, V = model Variable,  
C = Constant initialized to base data,  
P = Policy instrument or economic parameter

#### Column II (primary spreadsheet source)

t = base data spreadsheet, b = country model base spreadsheet,  
s = country support spreadsheet, f = master model file

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<sup>8</sup>The support spreadsheet includes more of this type of aggregate support information.

Column III (country spreadsheet cell contents)

F = Formula, N = Number, ' ' = empty cell in country spreadsheet

I	II	III	Variable Name	Col. Let.	Variable Description and Mnemonic
V	b	N	WDPRICE	B	World PRICE (in current solution)
B	s	N	PRPRICE	C	base PRoducer (incentive) PRICE
B	s	N	CNPRICE	D	base CoNsumer (incentive) PRICE
B	s	N	TDPRICE	E	base TraDe PRICE
B	b	N	XRATE	F	eXchange RATE
B	t	N	SUPPLY	G	base SUPPLY quantity
B	t	N	DEMAND	H	base DEMAND quantity
B	t	F	NTRADE	I	base Net TRADE (SUPPLY - DEMAND)
B	b	N	CTRAVEL	J	Country price TRANsmission ELasticity variable
B	b	N	WDPT.EL	K	product World Price Trans. ELasticity variable
P	b	N	SSSHIFT	L	Supply SHIFT variable (-1 < SSHIFT < 1)
P	b	N	DSHIFT	M	Demand SHIFT variable (-1 < DSHIFT < 1)
P	b	E	PRSUBW	N	PRoducer SUBsidy Wedge variable (price unit)
P	b	E	CNSUBW	O	CoNsumer SUBsidy Wedge variable (price unit)
P	b	E	IMSUBW	P	IMport SUBsidy Wedge variable (price unit)
P	b	E	EXSUBW	Q	EXport SUBsidy Wedge variable (price unit)
V	b	F	SCROSSO	R	Supply equation CROSS price Overflow term
V	b	F	DCROSSO	S	Demand equation CROSS price Overflow term
C	b	N	TDCONST	T	world-TraDe price CONSTant
C	b	N	PRCONST	U	PRoducer-trade price CONSTant
C	b	N	CNCONST	V	CoNsumer-producer price CONSTant
V	b	F	LPRPRICE	W	Liberalized PRoducer (incentive) PRICE
V	b	F	LCNPRICE	X	Liberalized CoNsumer (incentive) PRICE
V	b	F	SCROSS	Y	Supply equation CROSS price term
V	b	F	DCROSS	Z	Demand equation CROSS price term
C	b	N	SCONST	AA	Supply equation CONSTant
C	b	N	DCONST	AB	Demand equation CONSTant
V	b	F	SUPPLYEQ	AC	liberalized SUPPLY EQUation quantity
V	b	F	DEMANDEQ	AD	liberalized DEMAND EQUation quantity
V	b	F	NTRADEEQ	AE	liberalized Net TRADE EQUation quantity (SUPPLYEQ - DEMANDEQ)
V	b	F	TRADEOQ	AF	price adjustment for non-TRADED (0 trade Quantity) product (price unit)
P	b	N	SUPGROW	AG	SUPPLY GROWth rate
P	b	N	INCELAS	AH	INCOme ELASTicity
P	b	N	PTELAS	AI	Product world price Transmission ELASTicity (0 <= PTELAS <=1)
P	s	N	DPSW	AJ	Distorting Producer Subsidy price Wedge number (price unit)
P	s	N	CSW	AK	Consumer Subsidy price Wedge number (price unit)
P	s	N	MSW	AL	iMport Subsidy price Wedge number (price unit)
P	s	N	ESW	AM	Export Subsidy price Wedge number (price unit)
V	b	N	NTSSSHIFT	AN	Non-Trade policy Supply SHIFT term
I	b	F	SUPPLYD	AO	SUPPLY quantity Difference from base
I	b	F	DEMANDD	AP	DEMAND quantity Difference from base
I	b	F	NTRADED	AQ	Net TRADE quantity Difference from base
I	b	F	PRPRICED	AR	PRoducer PRICE Difference from base
I	b	F	CNPRICED	AS	CoNsumer PRICE Difference from base
I	b	F	TDPRICE%	AT	TraDe PRICE % change from base
I	b	F	SUPPLY%	AU	SUPPLY quantity % change from base
I	b	F	PRPRICE%	AV	PRoducer PRICE % change from base
I	b	F	DEMAND%	AW	DEMAND quantity % change from base
I	b	F	CNPRICE%	AX	CoNsumer PRICE % change from base
I	b	F	NTRADE%	AY	Net TRADE quantity % change from base
P	s	N	PBSE	AZ	Producer Budget Subsidy Equivalent rate (price unit)
P	s	N	CBSE	BA	Consumer Budget Subsidy Equivalent rate (price unit)
I	b	F	PSURPLUS	BB	Producer SURPLUS change (total)
I	b	F	CSURPLUS	BC	Consumer SURPLUS change
I	b	F	GDPVAL	BD	Gross Domestic Product VALue (at LWDPRICE)
I	b	F	FARMVAL	BE	FARM VALue (at MKPRICE)
I	b	F	GOVTEXPD	BF	GOVERNment EXPEnditure change from base (because of liberalization)
I	b	F	NEWGEXPD	BG	NEW Government EXPEnditure from base (from remaining support)
I	b	F	WELFARE	BH	total WELFARE change
I	b	N	MKPRICE	BI	MarKet PRICE at producer level
I	b	N	CQRENT	BJ	Change in Quota RENT
P	s	N	PTAXE	BK	Producer TAX Equivalent (of supply controls)
I	b	F	MPSURPLUS	BL	Minimum (excluded) Producer SURPLUS change
I	b	F	LSHRPSW	BM	Liberalized SHaRe of dPSW (used for welfare calculation)
I	b	F	LSHRCSW	BN	Liberalized SHaRe of CSW (used for welfare calculation)
I	b	F	LSHRMSW	BO	Liberalized SHaRe of MSW (used for welfare calculation)
I	b	F	LSHRESW	BP	Liberalized SHaRe of ESW (used for welfare calculation)
B	t	N	BGREXP	BQ	Base Gross EXPorts

B	t	N	BGRIMP	BR	Base Gross IMPorts
I	b	F	LGREXP	BS	Liberalized (estimated) Gross EXPorts
I	b	F	LGRIMP	BT	Liberalized (estimated) Gross IMPorts
B	f	N	BWDPRICE	BU	Base World PRICE
I	b	F	BNTRADEV	BV	Base Net TRADE Value (using base world price)
I	b	F	LNTRADEV	BW	Liberalized Net TRADE Value (using lib. world price)
I	b	F	NTRADEV	BX	Net TRADE Value Difference from base
I	b	F	BSELFSTR	BY	Base SELF Sufficiency Ratio
I	b	F	LSELFSTR	BZ	Liberalized SELF Sufficiency Ratio
P	s	N	MBSE	CA	Import Budget Subsidy Equivalent rate (price unit)
P	s	N	EBSE	CB	Export Budget Subsidy Equivalent rate (price unit)
I	b	F	GREXP	CC	Gross EXPort quantity Difference from base
I	b	F	GRIMP	CD	Gross IMPort quantity Difference from base
I	b	F	GREXP%	CE	Gross EXPort quantity % change from base
I	b	F	GRIMP%	CF	Gross IMPort quantity % change from base
I	s	N	BQRENT	CG	Base Quota RENT
I	b	F	BDEMP	CH	Base DEMand Per Capita
I	b	F	LDEMP	CI	Liberalized (new) DEMand Per Capita
I	b	F	BPVALUE	CJ	Base Producer VALUE
I	b	F	PSUPPRT	CK	value of Producer SUPPoRT
O	b	F	PROJADJ	CL	PROJection ADJustment variable for projections
	b		.....	CM	(empty column)
O	b	N	SHNFED	CN	Share of feeds Not FED in model
O	b	N	SHCONS	CO	SHare of intermediate product CONSumed in model
	b		.....	CP	(empty column)
I	b	F	EXTREVC	CQ	EXTRa REVENue Change from price policies
O	b	N	SETSIDE	CR	SET-aSIDE shift variable when set-asides removed
I	s	N	PPRMT	CS	Producer PRICE Minus set-Aside Tax
P	s	N	MKSUPRT	CT	MarKEt SUPport Rate
I	b	F	BCVALUE	CU	Base Consumption VALUE

## Variables/Data in the Country Support (s) Spreadsheet

The country support spreadsheet uses some of the country base data along with support information to calculate price support wedges, model prices, and budget data. The spreadsheet also calculates many other variables that are indicators or checks on the calculations but that are not used in the country base model spreadsheet. The following list gives a brief description of the variables/data for the top and bottom halves of the country support spreadsheet. The variable descriptions are from the cells below the variable names in the SWOPSIM support template spreadsheet NAMEWORK. A listing of the formulas follows the variable definitions. Variables carried into the country model spreadsheet carry the same name in the country support spreadsheet. Historically, the country support spreadsheet served as a check on support information input into SWOPSIM models; its ad hoc organization reflects the many changes made in these checks over time.

### Top Half of Country Support (s) Spreadsheet

Variable Name	Col.	Let. Variable Description and Mnemonic
WDPRICE	B	World PRICE
SUPPLY	C	SUPPLY (production)
DEMAND	D	Domestic DEMAND (consumption) + stock change
NTRADE	E	Net TRADE = SUPPLY - DEMAND = BGEXP - BFIMP
PRSHARE	F	PRoducer SHARE of retail cost
BGREXP	G	Base Gross EXPorts
BGRIMP	H	Base Gross IMPorts
NTRADET	I	Net TRADE from Trade data = BGEXP - BGRIMP
DNTRADE	J	Difference check for NTRADE between columns E and I (NTRADE and NTRADET)
CMKPRICE	K	Calculated MarKEt PRICE
PRIPRICE	L	calculated PRoducer Incentive PRICE
CNIPRICE	M	calculated CoNsumer Incentive PRICE
DTDPRICE	N	Derived (calculated) TraDe PRICE
PSCPB	P	Producer Support Commodity Program agriculture Budget (no associated price wedge)
PSCBPW	Q	Producer Support Commodity Program agriculture Budget with Price Wedge
PSCPOPW	R	Producer Support Commodity Program Other related financial with Price Wedge

PSCPPW	S	Producer Support Commodity Program Price Wedge (no associated budget)
CCT	T	Computed Consumer Transfer to producer by quota or similar policy (consumer payment MUST be entered in column AG)
PSOPB	U	Producer Support Other (non-commodity) Program non agriculture Budget (no associated price wedge)
PSOPBRW	V	Producer Support Other (non-commodity) Program non agriculture Budget with Price Wedge
PSOPOPW	W	Producer Support Other (non-commodity) Program Other related financial with Price Wedge
PSOPPW	X	Producer Support Other (non-commodity) Program Price Wedge (no associated budget)
CYMS	Z	Copy of Market Support
SCNTRADE	AA	Second Copy of Net TRADE
MSTYPE	AB	Market Support TYPE choice variable (1=quota, 2=export tax/subsidy, 3=import tax)
CSCPB	AD	Consumer Support Commodity Program agriculture Budget (no associated price wedge)
CSCBPBW	AE	Consumer Support Commodity Program agriculture Budget with Price Wedge
CSCPOPW	AF	Consumer Support Commodity Program Other related financial with Price Wedge
CSCPPW	AG	Consumer Support Commodity Program Price Wedge (no associated budget)
CSOPB	AI	Consumer Support Other (non-commodity) Program non agriculture Budget (no associated price wedge)
CSOPBPW	AJ	Consumer Support Other (non-commodity) Program non agriculture Budget with Price Wedge
CSOPOPW	AK	Consumer Support Other (non-commodity) Program Other related financial with Price Wedge
CSOPPW	AL	Consumer Support Other (non-commodity) Program Price Wedge (no associated budget)
ESCPB	AR	Export Support Commodity Program agriculture Budget (no associated price wedge)
ESCPBPW	AS	Export Support Commodity Program agriculture Budget with Price Wedge
ESCPPOPW	AT	Export Support Commodity Program Other related financial with Price Wedge
ESCPUPW	AU	Export Support Commodity Program Unused Price Wedge
ESOPB	AW	Export Support Other (non-commodity) Program non agriculture Budget (no associated price wedge)
ESOPBPW	AX	Export Support Other (non-commodity) Program non agriculture Budget with Price Wedge
ESOPOPW	AY	Export Support Other (non-commodity) Program Other related financial with Price Wedge
ESOPUPW	AZ	Export Support Other (non-commodity) Program Unused Price Wedge
ISCPB	BF	Import Support Commodity Program agriculture Budget (no associated price wedge)
ISCPBPW	BG	Import Support Commodity Program agriculture Budget with Price Wedge
ISCPPOPW	BH	Import Support Commodity Program Other related financial with Price Wedge
ISCPUPW	BI	Import Support Commodity Program Unused Price Wedge
ISOPB	BK	Import Support Other (non-commodity) Program non agriculture Budget (no associated price wedge)
ISOPBPW	BL	Import Support Other (non-commodity) Program non agriculture Budget with Price Wedge
ISOPOPW	BM	Import Support Other (non-commodity) Program Other related financial with Price Wedge
ISOPUPW	BN	Import Support Other (non-commodity) Program Unused Price Wedge
PFACTOR	BQ	Price conversion FACTOR to convert to US Situation and Outlook price units
QFACTOR	BR	Quantity conversion FACTOR to convert to US Situation and Outlook quantity units
GAELC	BT	Gross Agricultural Expenditures in Local Currency
GAEM\$	BU	Gross Agricultural Expenditures in Million US \$
NTGELC	BV	Non Trade Government Expenditures in Local Currency
NTGEM\$	BW	Non Trade Government Expenditures in Million US \$
ATEELC	BX	Agricultural Trade Expenditure on Exports in Local Currency
ATEILC	BY	Agricultural Trade Expenditure on Exports in Local Currency
ATETLC	BZ	Agricultural Trade Expenditure Total in US \$
MBSE	CA	iMport Budget Subsidy Equivalent--CARRIED INTO COUNTRY MODEL
EBSE	CB	Export Budget Subsidy Equivalent--CARRIED INTO COUNTRY MODEL
PBSE	CC	Producer Budget Subsidy Equivalent--CARRIED INTO COUNTRY MODEL
CBSE	CD	Consumer Budget Subsidy Equivalent--CARRIED INTO COUNTRY MODEL
BQRENT	CE	Base Quota economic RENT--CARRIED INTO COUNTRY MODEL
BQRENT%	CF	Base Quota RENT percent
TSP	CH	Total Support to Producer = PSE * Production
TSC	CI	Total Support to Consumer = CSE * Consumption
CTP	CJ	Consumer Transfer Portion of producer support
PSSH	CK	Producer Support SHare of PSE
ESSH	CL	Export Support SHare of PSE
MSSH	CM	iMport Support SHare of PSE
MVP	CN	Market Value of Production in M US\$
PSPV	CO	Production Share of total Producer Value
PSPS	CP	Product Share of total Producer Support
PSAE	CQ	Product Share of total Agriculture Expenditures
TTSPSE	CR	Trade Tax Share of PSE
SHCV	CS	product SHare of Consumption Value
VC	CT	Value of Consumption in M US\$
RTDS	CV	Relative TDS as percent
TPS	CY	Total Producer Support
TCS	CZ	Total Consumer Support
SUPELAS	DA	own-price SUPply ELASticity used for TDS
DEMELAS	DB	own-price DEMand ELASticity used for TDS
TDSMSP	DC	Trade Distorted by Support from Market Support to Producer
TDSMSC	DD	Trade Distorted by Support from Market Support to Consumer
TDSDSP	DE	Trade Distorted by Support from Direct Support to Producer
TDSOSA	DF	Trade Distorted by Support from Offset from Set Aside

TDSDSC	DG	Trade Distorted by Support from Direct Support to Consumer
TDS	DH	Trade Distorted by Support = TDSMSP+TDSSMSC+TDSDSP+TDSOSA+TDSDSC

# Bottom Half of Country Support (s) Spreadsheet

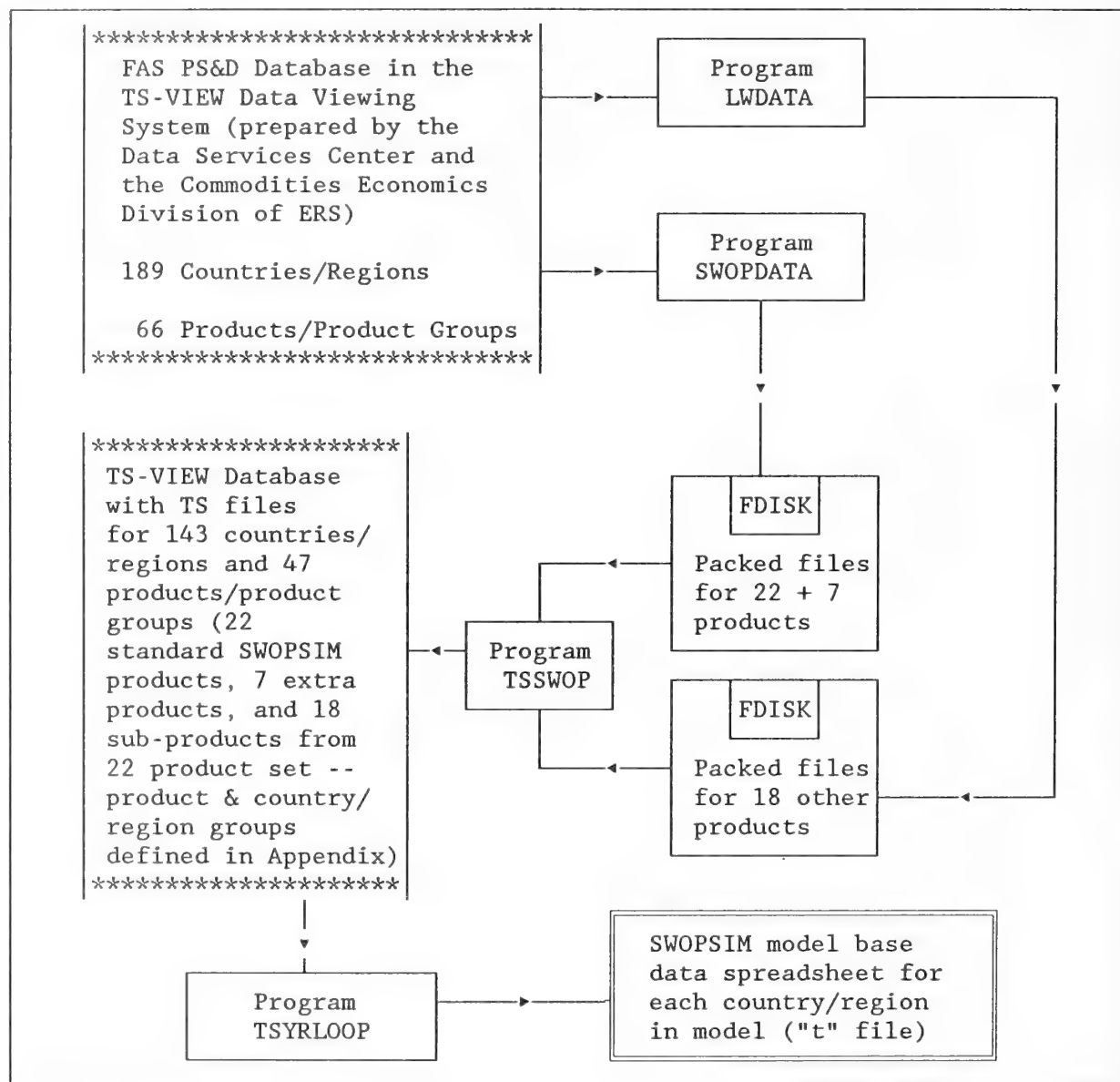
Variable Name	Col. Let.	Variable Description and Mnemonic
DPSW	B	Distorting Producer Subsidy Wedge--CARRIED INTO COUNTRY MODEL
CSW	C	Consumer Subsidy Wedge--CARRIED INTO COUNTRY MODEL
ESW	D	Export Subsidy Wedge--CARRIED INTO COUNTRY MODEL
MSW	E	Import Subsidy Wedge--CARRIED INTO COUNTRY MODEL
APROB	F	Aggregation PROBLEM likely if marked with an A
DPSW%	G	DPSW as percent of producer price
CSW%	H	CSW as percent of consumer price
ESW%	I	ESW as percent of trade price
MSW%	J	MSW as percent of trade price
MKPRICE	K	Market PRICE (in US\$/MT)--CARRIED INTO COUNTRY MODEL
PRPRICE	L	Producer incentive PRICE (PRPRICE in US\$/MT)--CARRIED INTO COUNTRY MODEL
CNPRICE	M	Consumer incentive PRICE (CNPRICE in US\$/MT)--CARRIED INTO COUNTRY MODEL
TDPRICE	N	derived Trade PRICE (TDPRICE in US\$/MT)--CARRIED INTO COUNTRY MODEL
PSEIP%	P	Producer Subsidy Equivalent as percent of Internal Prices
CSEIP%	Q	Consumer Subsidy Equivalent as percent of Internal Prices
PSEWP%	R	Producer Subsidy Equivalent as percent of World Prices
CSEWP%	S	Consumer Subsidy Equivalent as percent of World Price
PSE	T	Producer Subsidy Equivalent
CSE	U	Consumer Subsidy Equivalent
MS	V	Market Support rate
CNTRADE	W	Copy of Net TRADE
WDP-DTDP	X	World Price minus Derived Trade Price
DTDP/WDP	Y	ratio of Derived Trade Price to World Price
SETSIDE	Z	SET-aSIDE supply shift when set-asides are removed--CARRIED INTO COUNTRY MODEL
SUPTAX	AA	SUPPLY TAX equivalent rate of SETSIDE (US\$/MT)
PADJFACT	AB	Price ADJUSTMENT FACTOR calculated if DTDPPRICE is negative
OMIT	AD	1 if alternative non PSE data to be used, 0 = OMIT
ASUPPLY	AE	Alternative SUPPLY data (typically from PSE calculation)
ADEMAND	AF	Alternative DEMAND data (typically derived to match PSE supply data)
DIRPAY	AG	DIRECT PAYMENTS per metric ton (optional if non-PSE data used)
APRPRICE	AH	Alternative PRPRICE (typically from PSE calculation)
ACNPRICE	AI	Alternative CNPRICE
ATDPRICE	AJ	Alternative TDPRICE
MARGIN	AK	implied MARGIN
AEXPORTS	AL	Alternative gross EXPORTS
AIMPORTS	AM	Alternative gross IMPORTS
INTRADE	AN	If blank, Ignore Net TRADE and calculate both ESW and MSW, else 1
CEXPORTS	AO	Chosen EXPORT data used for calculations depending upon '1' in column AD
CIMPORTS	AP	Chosen IMPORT data used for calculations depending upon '1' in column AD
BPVALUE	AR	Base Production VALUE
BCVALUE	AS	Base Consumption VALUE
VPSUP	AT	Value of Producer SUPport
VCSUP	AU	Value of Consumer SUPport
VEXSUP	AV	Value of EXport SUPport
VIMSUP	AW	Value of IMport SUPport
TVPSUP	AX	Total Value of Producer SUPport
TVCSUP	AY	Total Value of Consumer SUPport
DPSNM	BA	Derived Producer Support from Non Model data
DCSNM	BB	Derived Consumer Support from Non Model data
PSDIF	BC	Producer Support DIFFerence between model and alternative data
CSDIF	BD	Consumer Support DIFFerence between model and alternative data
AMS	CU	Alternative Market Support
ADPS	CV	Alternative Direct Producer Support
AOPS	CW	Alternative Other Producer Support
ADCS	CX	Alternative Direct Consumer Support
MSQR	CY	Market Support if a Quantitative Restriction
MSES	CZ	Market Support if an Export Subsidy
MSIT	DA	Market Support if an Import Tax
VTDSMSP	DC	Value of Trade Distorted by Support from Market Support to Producer
VTDSMSC	DD	Value of Trade Distorted by Support from Market Support to Consumer
VTDSDSP	DE	Value of Trade Distorted by Support from Direct Support to Producer
VTDSOSA	DF	Value of Trade Distorted by Support from Offset from Set Aside
VTDSOSC	DG	Value of Trade Distorted by Support from Direct Support to Consumer
VTDS	DH	Value of Trade Distorted by Support = VTDSMSP+VTDSMSC+VTDSDSP+VTDSOSA+VTDSOSC



## Programs to Prepare Quantity Data From the TS-VIEW FAS 189-Country Database

SWOPSIM models at ERS have been designed around USDA's Foreign Agricultural Service global product supply and distribution database. The data preparation process starts with a version of this database available with the TS-VIEW program, which contains 189 countries/regions and 66 product groups in TS files (111).<sup>9</sup> Batch computer programs control data manipulation to obtain a TS-VIEW intermediate database for 47 SWOPSIM products, 143 countries/regions. Finally, data from this intermediate database are put into a spreadsheet for a model for a selected year. Figure 5 gives an overview of this process.

Figure 5--Preparation of Quantity Data for SWOPSIM Models from FAS PS&D DATA



<sup>9</sup>The TS-VIEW data system contains programs which allow operations on database products and countries. These programs can be invoked by DOS batch programs.

Since TS-VIEW databases are large, the process shown in figure 5 is broken up so that the databases can reside on separate computers.<sup>10</sup> In ERS, the FAS PS&D database is installed on one computer, and the programs SWOPDATA and LWDATA aggregate to SWOPSIM product groups and pack the data so they fit on 2 1.44 MB floppy disks. These disks are carried to another computer, which houses the TS-VIEW SWOPSIM database. The program TSSWOP is used to convert the unpacked data from the floppy disks to the 143-country/region TS database. Once the SWOPSIM TS-VIEW database is in place, the program TSYRLOOP can be used to prepare SWOPSIM base quantity data spreadsheets for model countries/regions for a selected year.

#### Collecting a 22+ Product SWOPSIM Dataset from a 189-Country TS-VIEW Supply and Distribution Dataset

A large (189-country) FAS supply and distribution database resides on a computer in ERS in the TS-VIEW database viewer system. This database is the source of SWOPSIM quantity data for the base data (t) files for SWOPSIM models. Two programs, SWOPDATA and LWDATA, are used to aggregate this data to SWOPSIM product

#### Screen 1--Data preparation program-SWOPDATA

SWOPSIM Data Conversion Program	
SWOPDATA	Program to get a complete set of 22+ SWOPSIM products from the 189 country FAS TS-VIEW supply and distribution data set. The program calls TSGET for each SWOPSIM product and does some subtraction of data sets to form "other" SWOPSIM product data sets.
REQUIREMENTS	189 country complete TS-VIEW Supply and Distribution data for products.
OUTPUT (D:)	Packed set of 22+ SWOPSIM product (189 country) TS files and a packed file MNU containing all of associated TS menus.
COMMAND	SWOPDATA
ERROR = The TS2MNU.EXE file does not exist on E:\TS. Check TS location! C:\>	

levels and pack files on the D: drive. These packed data can then be copied to floppy disks and moved to other computers for further processing. The program SWOPDATA prepares the standard 22 SWOPSIM products plus an auxiliary set of 7 commodities. LWDATA prepares an additional set of 18 products which are disaggregates of the 22 standard SWOPSIM products.

#### Creating a SWOPSIM TS Dataset

Files from the floppy disks are unpacked on the D: drive of another computer. A set of MNU files for configuring TS data are copied to the TS subdirectory which is used to contain the intermediate SWOPSIM TS-VIEW database. Then TSSWOP is run for each unpacked SWOPSIM product file to aggregate the 189 countries/regions from the FAS PS&D database down to 143 SWOPSIM intermediate

<sup>10</sup>These programs which convert from the FAS PS&D database to SWOPSIM model spreadsheets are operated internally in ERS and depend to some extent, on the computer configuration for the databases involved. The programs operating on the TS-VIEW databases are of interest to the ERS researcher who wants to manipulate these data. However, given the world model data documented in this report, the typical user will be more interested in programs that manipulate and aggregate the model data.

database countries/regions. These processed data are then saved on the SWOPSIM TS-VIEW database. There the user can examine time series of SWOPSIM-defined quantity data and convert the data to other uses.<sup>11</sup>

Each of these data preparation programs may call other batch programs to complete certain tasks. Appendix 7 includes annotated listings of all of these programs.

#### Preparing Base Data Spreadsheets for SWOPSIM Models

Once the SWOPSIM intermediate program TS-VIEW database has been prepared, the user can use the program TSYRLOOP to create a set of base data spreadsheets for the five large global SWOPSIM models.

TSYRLOOP is the final program to prepare base data for SWOPSIM models. The final products are "t" base data spreadsheets containing quantity data for countries. The user must select the model base year.<sup>12</sup>

<sup>11</sup>Recall that TS-VIEW has a set of utilities that allow the user to carry out operations on TS files with computer programs. Also, menus in the TS system itself allow the user to perform some data operations and to put data from the TS system out to spreadsheet readable files.

<sup>12</sup>See SWOPSIM documentation for details on the "t" spreadsheets (96). The screens shown in this report are those seen when the name of the program is invoked when required parameters are not entered. This screen gives summary information about the program, its requirements, and its output. Complete listings are given in Appendix 7 of this report.

#### Screen 2--Data preparation program-TSSWOP

```

-----
TS-VIEW country conversion (189 FAS to SWOPSIM countries)
-----
TSSWOP      Program to convert a 189 country/region TS-VIEW product
            file to a SWOPSIM country list TS-VIEW product file.
REQUIREMENTS A 189 country/region TS commodity (EXE) file on D: drive
            (created by SWOPDATA with the 2 digit SWOPSIM Name - SN),
            TS utilities (and prepared files) on the (G:\TS) TS-VIEW
            subdirectory. TS-VIEW utility (and prepared) files are:
            TSADD.EXE (189ADD.ADD), TSSUB.EXE (189SUB.SUB, 189RW.SUB),
            TSSUBSET.EXE (189ORDER.BSS), TS2PRN.EXE, PRN2TS.EXE, and
            TS menus - TEMP.MNU and 22+ SWOPSIM product code menus
            (*.MNU).
OUTPUT (D:)  SWOPSIM TS_VIEW product (SN) file for SWOPSIM countries
-----
COMMAND      TSSWOP SN
-----
ERROR = You forgot SWOPSIM Name; Enter: TSSWOP SN
C:\>

```

#### Screen 3--Data preparation program-TSYRLOOP

```

-----
TS-VIEW to SWOPSIM Program for a selected year and model
-----
TSYRLOOP     Program to loop though the TS data to prepare SWOPSIM
            NAMEtCD.CAL files for 143 countries/regions for a
            selected year for large SWOPSIM models.
REQUIREMENTS Batch programs TSYRCOM.BAT and TSYRCTY.BAT on C:\BATCH
            subdirectory. TS files for commodities in TSYRCOM.BAT
            on the TS-VIEW drive and subdirectory.
OUTPUT (D:)  Set of 143 SWOPSIM country/region files with Supply, Demand,
            Exports, Imports, and Net Trade for selected year for 22 +
            SWOPSIM commodities.
-----
COMMAND      TSYRLOOP YR
-----
ERROR = You forgot YEAR digits (e.g. 88); Enter: TSYRLOOP YEAR
C:\>

```

## Balancing World Trade

Once a base data spreadsheet ("t") file is prepared, it must be saved on a model subdirectory. Assuming a model has been defined with a master model file, the program ADJUSTT can be run to make sure the "t" files contain a minimum amount of data for products where supply is to be modeled.

ADJUSTT is designed to work with the standard 22-product SWOPSIM base data sets. It checks, for example, to see that fluid milk data are non-traded and that trade balances are consistent with supply and demand balances. The program can be run for any 22-product "t" file, even those prepared manually and not from the TS-VIEW data.

The final data step for preparation of a

world model is the balancing of world trade. At the initial state, world exports must equal world imports for each product, a state that usually does not occur naturally in trade data. The program TBALANCE does this automatically by adjusting data in the RW (Rest-of-World) "t" file to ensure such a balance.

Once TBALANCE has been run and the balanced "t" file has been saved on the model subdirectory, the base data can be re-entered into models. World trade will then be balanced for each product. The SWOPSIM program TABLE is useful for verification here.

## Programs to Calculate Feed Shares

In the process of expanding country coverage of the SWOPSIM database, feed shares, as specified in the standard SWOPSIM model, presented a serious data problem (111). Information is available in the TS-VIEW database on the total share fed of each feed product. In a modeling context, information on the

### Screen 4--SWOPSIM data preparation program-ADJUSTT

```
SWOPSIM program to ADJUST the base data "T" file
-----
ADJUSTT      Program to adjust base data in "t" file for balanced trade
              and minimal supply/demand data, consistent with the master
              model file (NAME.CAL) for the selected country CoDe.
REQUIREMENTS Country model "t" file (NAMEtCD.CAL) containing base data
              on the model subdirectory.
OUTPUT (D:)   Adjusted base data file.
-----
COMMAND       ADJUSTT  NAME CD
-----
ERROR = You forgot model NAME; Enter: ADJUSTT NAME CD
C:\>
```

### Screen 5--SWOPSIM data preparation program-TBALANCE

```
SWOPSIM program to BALANCE the RW "T" data file
-----
TBALANCE      Program to adjust base data in the RW "t" file to balance
              the trade in the world model NAME.
REQUIREMENTS Country model "t" file (NAMEtRW.CAL) containing base data
              and all other "t" files on the model subdirectory.
OUTPUT (D:)   Adjusted base data NAMEtRW.CAL file with balanced world
              trade.
-----
COMMAND       TBALANCE  NAME
-----
ERROR = You forgot model NAME; Enter: TBALANCE NAME
C:\>
```

quantity of animal product produced could be used to attribute the feeds to each animal product assuming some usage ratio. A spreadsheet was prepared that picked this information from model data (the standard 22-product SWOPSIM model) and supplemented it with information

on average energy and protein contents of SWOPSIM feeds. The result is a calculation of feed shares from the basic data that are consistent with reasonable assumptions about energy and protein content. These new feed shares can be compared with old ones if they exist. Feed cross price elasticities are also calculated. The program FEEDCHCK initiates this operation and the program FEEDADJS puts the results into a standard SWOPSIM country model "b" file.

The FEEDCHCK program also allows analyst judgment to enter about the availability of grass, forage, and other feeds available that are not included in the model. The resulting feed shares are surprisingly consistent with earlier ones which came from published work on feed consumption by animal product group. The advantage of this system is that reasonable starting values for feed shares can be calculated from, and be consistent with, base FAS supply and distribution data for any country in the database system. Obviously, the results should be examined by the user before further use.

The program FEEDADJS also carries the user through several required adjustments in the supply-demand elasticity and parameter set needed to make a model well behaved. The program is a time-saver for an experienced SWOPSIM model builder. However, both of these feed share programs are optional.

#### Screen 6--SWOPSIM data preparation program-FEEDCHCK

SWOPSIM Program	
FEEDCHCK	Program to calculate some implied feed ratios and allow the user to enter new product feed share ratios for an automatic calculation of new feed shares for each animal product. Some alternative cross price elasticity calculations for feed demand are also made. The FEEDCHCK spreadsheet can be printed out or saved on D:.
REQUIREMENTS	A C:\NAME subdirectory must contain the country model file for the country CD (NAMEbcd.CAL).
OUTPUT (D:)	CDFEED.CAL file of values and either a printout or an ASCII file CDFEED.PRN.
COMMAND	FEEDCHCK NAME CD P (or F)
ERROR = You forgot model NAME; Enter: FEEDCHCK NAME CD P (or F) C:\>	

#### Screen 7--SWOPSIM data preparation program-FEEDADJS

SWOPSIM Program to ADJUsT FEED shares from FEEDCHCK	
FEEDADJS	Program to insert the new feed share ratios calculated in the program FEEDCHCK (as well as some cross price elasticities) and to allow "fine final tuning" of the supply and demand matrices for other items such as oilseeds and food demand elasticities. This program and FEEDCHCK are designed for the 22 product standard model. After adjustments have been made and the file has been saved, you should print out the elasticity sheet with EOUT and give a final visual check of elasticities and parameters. Further changes made must be done manually.
REQUIREMENTS	A C:\NAME subdirectory must contain the country model file for the country CD (NAMEbcd.CAL).
OUTPUT (D:)	A NAMEbcd.CAL file with adjusted coefficient values.
COMMAND	FEEDADJS NAME CD
ERROR = You forgot model NAME; Enter: FEEDADJS NAME CD C:\>	



## Conclusions

In this report, we have attempted to specify as clearly as possible all the steps involved in constructing global databases for use with the SWOPSIM modeling framework. It concludes a 6-year process of evolution during which the SWOPSIM team updated and revised programs and databases, and helped produce 17 ERS staff reports, as well as numerous meeting papers, journal articles, and large amounts of unpublished staff analysis. This was done primarily to support the research agenda of ERS in trade liberalization analysis for the Uruguay Round of the GATT negotiations. In the process, however, we acquired a number of SWOPSIM "clients" within ERS, across the United States, and around the world, whom we have attempted to assist as much as possible. We consider this report the final step in SWOPSIM development, and hope it provides, in conjunction with the previous reports, all the information current and future SWOPSIM users will need for their research.

Static

World

Policy

Simulation

Modeling

Framework



Nonspatial  
Multi-product, multi-region  
Partial equilibrium  
Synthetic  
Policy-oriented  
Spreadsheet based

**SWOPSIM**



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## Appendix 1--Concordance Between the FAS 189-Country/Region TS-VIEW Database and SWOPSIM Global Databases

The SWOPSIM database for five large global models was possible because of the facility of TS-VIEW databases to allow aggregation and other arithmetic operation across products and countries/regions. Computer programs are easily designed which carry out data manipulations automatically.

The basic source of quantity supply and utilization data in SWOPSIM global databases is the FAS 189-country/region TS-VIEW database. SWOPSIM product aggregations are derived from the products in the FAS database. In addition, 25 additional regional aggregations are used in various SWOPSIM global databases. The FAS database is organized by files of products and product groups. Within each product file, each country/region is identified (programmatically) by a number. Also, numbers are created during aggregation processes for the 25 additional regions created. In order to reference products and countries/regions in SWOPSIM global databases, a concordance between the FAS countries/regions (and the additional aggregates) and the countries/regions in the 5 global databases is useful. Such a concordance is explicit in the computer programs that prepare SWOPSIM databases from FAS TS-VIEW data. This appendix lists this concordance for user reference.

The first part of the concordance contains the numerical and alphabetical codes for all the countries/regions in the TS-VIEW database, and an additional 25 aggregate regions, for the different global databases. As a result, there are 213 country/regions from the FAS TS-VIEW database which map into 143 countries/regions in 5 SWOPSIM global databases. A detailed listing of the countries/regions within each of the 25 additional aggregate regions (213 minus 189) is provided at the end of this first part, by letter code used in the concordance followed by the numerical codes of countries/regions included in the aggregate. The rest-of-world region for each database is provided by subtraction of countries/regions in a database from world totals. This illustrates that the rest-of-world region differs by database, but does not list exactly what countries/regions it contains, since it is also used as a trade-balancing region where data are adjusted to make world exports equal world import for a model. For some databases, the rest-of-world region is quite large.

The second part of the concordance is a listing, in numerical order and by name, of the 189 countries/regions contained within the FAS PS&D database.

The final part of the appendix is a list of products (commodities) included in the database. There are 47 commodities listed by name and alphabetical code, which are contained in the SWOPSIM version of the TS-VIEW database. The first set listed are the standard 22-commodity set used in most ERS SWOPSIM models (the standard SWOPSIM model), and includes four commodities which are calculated aggregates. Next are the seven additional commodities now routinely included in the database "t" files, and available in a form ready for incorporation into models. Finally, we list the 18 additional commodities available in the SWOPSIM TS-VIEW database. Of these, 12 come from the 4 aggregate commodities in the standard 22-product set, and 4 come from the 4 new aggregates that result when the 12 are removed from the original aggregates. The last two commodities result from the poultry meat variable being separated into turkey meat, and broiler and other poultry meat. Again, the TS-VIEW system makes product aggregation and disaggregation fairly routine, once the original data exist in a TS-VIEW database.

# Appendix 1--Concordance Between the FAS 189 Country/Region TS-VIEW Database and SWOPSIM Global Databases--continued

## Master Concordance Between FAS PS&D Database and SWOPSIM TS-VIEW Global Model Databases

Number in FAS 189 Country PS&D Database	SWOPSIM TS-VIEW Database 2 Letter Code and Country/Region Name	TS-VIEW ORDER	SWOPSIM 2 Digit Global Model Code for Model Containing Country/Region WD = World, EU = Europe, WH = Western Hemisphere, AS = Asia and Pacific Rim, AF = Africa
1	WD - World	1	(Aggregate)
2	FG - Foreign (non-US)	2	(Aggregate)
6	US - United States	3	WD EU WH AS AF
7	CN - Canada	4	WD EU WH AS
44	EC - European Community	5	WD WH AS AF
58	WE - O.W. Europe	6	WD AS
156	JP - Japan	7	WD EU WH AS
180	AU - Australia	8	WD EU AS
181	NZ - New Zealand	9	WD EU AS
151	SF - South Africa	10	WD AS AF
68	EE - Eastern Europe	11	WD AS
67	SV - Soviet Union	12	WD EU AS
152	CH - P.R. China	13	WD AS
8	MX - Mexico	14	WD WH AS
190	CA - C. Amer. & Caribb.	15	WD AS
31	AR - Argentina	16	WD WH
32	BZ - Brazil	17	WD WH
43	VE - Venezuela	18	WD WH
199	LA - O. Latin America	19	WD
116	NG - Nigeria	20	WD AF
200	AF - O. Sub.S. Africa	21	WD
97	EG - Egypt	22	WD AF
191	MP - M.E. & N.A. Oil P.	23	WD
192	MO - M.E. & N.A. Other	24	WD
176	ND - India	25	WD AS
201	OS - O. South Asia	26	WD
164	DO - Indonesia	27	WD AS
170	TH - Thailand	28	WD AS
167	ML - Malaysia	29	WD AS
168	PH - Philippines	30	WD AS
202	SA - O. S.E. Asia	31	WD
159	SK - South Korea	32	WD AS
160	TW - Taiwan	33	WD AS
203	EA - O. East Asia	34	WD
209	RW - Rest of World - WD	35	WD
193	DA - Dev. Asian Imp.	36	EU (from SW89, an aggregate of WD)
194	DE - Dev. Exporters	37	EU (from SW89, an aggregate of WD)
45	BL - Belgium-Lux.	38	EU
46	DN - Denmark	39	EU
47	FR - France	40	EU
48	GC - Greece	41	EU
49	IR - Ireland	42	EU
50	IT - Italy	43	EU
51	NT - Netherlands	44	EU
52	PT - Portugal	45	EU
53	SP - Spain	46	EU
54	UK - United Kingdom	47	EU
56	WG - West Germany	48	EU
57	GD - German Dem. Rep.	49	EU
59	AT - Austria	50	EU
61	FN - Finland	51	EU
64	NO - Norway	52	EU
65	SW - Sweden	53	EU
66	SZ - Switzerland	54	EU
195	OW - O. West. Europe	55	EU
69	AB - Albania	56	EU
70	BI - Bulgaria	57	EU
71	CZ - Czechoslovakia	58	EU
72	HU - Hungary	59	EU

Note that many of these country TS-VIEW data sets and models are used in several SWOPSIM global 1989 models.



Number in FAS 189 Country PS&D Database	SWOPSIM TS-VIEW Database 2 Letter Code and Country/Region Name	TS-VIEW ORDER	SWOPSIM 2 Digit Global Model Code for Model Containing Country/Region WD = World, EU = Europe, WH = Western Hemisphere, AS = ASia and Pacific Rim, AF = AFrica
73	PL - PoLand	60	EU
74	RM - RoMania	61	EU
75	YU - YUgoslavia	62	EU
92	TK - TurKey	63	EU
95	NF - North AFrica	64	EU
204	OM - O. Middle East	65	EU
210	R1 - ROW for EU model	66	EU
10	BE - BElize	67	WH
11	CR - Costa Rica	68	WH
12	ES - El Salvador	69	WH
13	GT - GuaTemala	70	WH
14	HO - HOnduras	71	WH
15	NI - NIcaragua	72	WH
16	PA - PAnama	73	WH
18	BH - BaHamas	74	WH
19	BA - BArbados	75	WH
20	BD - BermuDa	76	WH
21	CU - CUba	77	WH
22	DR - Dominican Republic	78	WH
23	GU - GUadaloupe	79	WH
24	HA - HAiti	80	WH
25	JM - JaMaica	81	WH
26	MA - MArtinique	82	WH
27	NN - Netherlands Antil.	83	WH
28	SC - St. LuCia	84	WH
29	ST - ST. Vincent	85	WH
30	TT - Trinidad-Tobago	86	WH
34	BO - BOlivia	87	WH
35	CL - ChiLe	88	WH AS
36	CO - COlumbia	89	WH AS
37	ED - EcuaDor	90	WH AS
38	GY - GuYana	91	WH
39	PR - PaRaguay	92	WH
40	PE - PERu	93	WH AS
41	SU - SUrinam	94	WH
42	UR - URuguay	95	WH
211	R2 - ROW for WH model	96	WH
153	MN - MoNgolia	97	AS
158	NK - North Korea	98	AS
162	BR - BRunai	99	AS
163	BU - BUrma	100	AS
165	KR - Khmer Republic	101	AS
166	LO - LaOs	102	AS
169	SN - SiNgapore	103	AS
171	VT - VieTnam	104	AS
173	AH - AfgHanistan	105	AS
174	BG - BanGladesh	106	AS
178	PK - PaKistan	107	AS
179	SL - Sri Lanka	108	AS
196	OA - Other ASia	109	AS
212	R3 - ROW for ASia model	110	AS
197	OE - Other Europe	111	AF
198	AS - ASia	112	AF
96	AL - ALgeria	113	AF
98	LY - LibYa	114	AF
99	MC - MoroCco	115	AF
100	TN - TuNisia	116	AF
104	CM - CaMeroon	117	AF
108	GH - GHana	118	AF
109	GN - GuiNea	119	AF
111	IC - Ivory Coast	120	AF
112	LB - LiBeria	121	AF
117	SG - SeneGal	122	AF
205	AW - O. West Africa	123	AF
126	ZR - ZaiRe	124	AF
206	CF - Central AFrica	125	AF

Number in FAS 189 Country PS&D Database	SWOPSIM TS-VIEW Database 2 Letter Code and Country/Region Name	TS-VIEW ORDER	SWOPSIM 2 Digit Global Model Code for Model Containing Country/Region WD = World, EU = Europe, WH = Western Hemisphere, AS = ASia and Pacific Rim, AF = Africa
130	EP - EthioPia	126	AF
131	KY - KenYa	127	AF
133	SM - SoMalia	128	AF
134	SD - SuDan	129	AF
135	TZ - TanZania	130	AF
136	UG - UGanda	131	AF
207	AE - O. East Africa	132	AF
138	AG - AnGola	133	AF
139	BT - BoTswana	134	AF
141	LH - LesotHo	135	AF
142	MG - MadaGascar	136	AF
143	MW - MalaWi	137	AF
145	MZ - MoZambique	138	AF
148	WZ - SWaZiland	139	AF
149	ZA - ZAmbia	140	AF
150	ZB - ZimBabwe	141	AF
208	OF - O. Southern Africa	142	AF
213	R4 - ROW for Africa	143	AF

Aggregate Region Code	FAS PS&D Country Code Numbers Included in the Aggregate Regions
CA	9 17
MP	77 79 80 83 88 89 90 91 93 96 98 100
MO	78 81 82 84 85 92 99
CP	67 68 152
DA	155 157 158 159 160
DE	31 32 164 167 168 170
OW	60 62 63
OA	155 157 175 177 182 183 184 185 186 187 188 189
OE	58 67 68
AS	152 153 154 161 172
LA	34 35 36 37 38 39 40 41 42
AF	102 103 104 105 106 107 108 109 110 111 112 113 114 115 117 118 119 120 127 138 139 140 141 142 143 144 145 146 147 148 149 150
OS	173 174 175 177 178 179 182 183 184 185 186 187 188 189
SA	162 163 165 166 169 171
EA	155 157 158
OM	77 78 79 80 81 82 83 84 85 88 89 90 91 93
AW	102 103 105 106 107 110 113 114 115 118 119
CF	121 122 123 124 125
AE	128 129 132
OF	140 144 146 147

ROW Code	FAS PS&D Country Code Numbers Subtracted from the World Total (the first code which is 1)
RW	6 7 8 31 32 43 44 58 67 68 97 116 151 152 156 159 160 164 167 168 170 176 180 181 190 191 192 199 200 201 202 203
R1	6 7 45 46 47 48 49 50 51 52 53 54 56 57 59 61 64 65 66 67 69 70 71 72 73 74 75 92 95 156 180 181 193 194 195 204
R2	6 7 8 10 11 12 13 14 15 16 18 19 20 21 22 23 24 25 26 28 28 29 30 31 32 34 35 36 37 38 39 40 41 42 43 44 156
R3	6 7 8 35 36 37 40 44 58 67 68 152 153 156 158 159 160 162 163 164 165 166 167 168 169 170 171 173 174 176 178 179 180 181 190 196
R4	6 44 96 97 98 99 100 104 108 109 111 112 116 117 126 130 131 133 134 135 136 138 139 141 142 143 145 148 149 150 151 197 198 205 206 207 208

The program TSSWOP calculates values for the ROW (Rest-Of-World) region of each world model by subtracting values for each FAS country from the FAS world value (FAS code = 1). The subtraction is done with a TS-VIEW utility controlled by a DOS batch program. If the TS data files are updated, TSSWOP can be run again to recalculate the SWOPSIM intermediate database values.

FAS Database Country/Region	FAS PS&D Country Number Code		FAS Database Country/Region	FAS PS&D Country Number Code
WORLD	1	These are the countries and regions in the 189 country/region FAS PS&D database kept in the TS-VIEW data system. The numerical codes are to the right of the country/region names.	POLAND	73
FOREIGN	2		ROMANIA	74
CENTRALLY PLANNED	3		YUGOSLAVIA	75
NICS	4		MIDDLE EAST	76
LESS DEVELOPED	5		BAHRAIN	77
UNITED STATES	6		CYPRUS	78
CANADA	7		IRAN	79
MEXICO	8		IRAQ	80
CENTRAL AMERICA	9		ISRAEL	81
BELIZE	10		JORDAN	82
COSTA RICA	11		KUWAIT	83
EL SALVADOR	12		LEBANON	84
GUATEMALA	13		UNITED YEMEN	85
HONDURAS	14		NORTH YEMEN-SANA	86
NICARAGUA	15		SOUTH YEMEN-ADEN	87
PANAMA	16		OMAN	88
CARIBBEAN	17		QATAR	89
BAHAMAS	18		SAUDI ARABIA	90
BARBADOS	19		SYRIA	91
BERMUDA	20		TURKEY	92
CUBA	21		UNITED ARAB EMIRATES	93
DOMINICAN REPUBLIC	22		SUBSAHARAN AFRICA	94
GUADELOUPE	23		NORTH AFRICA	95
HAITI	24		ALGERIA	96
JAMAICA	25		EGYPT	97
MARTINIQUE	26		LIBYA	98
NETHERLAND ANTILLES	27		MOROCCO	99
ST LUCIA	28		TUNISIA	100
ST VINCENT	29		WEST AFRICA	101
TRINIDAD-TOBAGO	30		BENIN	102
ARGENTINA	31		BURKINA	103
BRAZIL	32		CAMEROON	104
OTHER SOUTH AMERICA	33		CAPE VERDE	105
BOLIVIA	34		CHAD	106
CHILE	35		GAMBIA	107
COLOMBIA	36		GHANA	108
ECUADOR	37		GUINEA	109
GUYANA	38		GUINEA-BISSAU	110
PARAGUAY	39		IVORY COAST	111
PERU	40		LIBERIA	112
SURINAM	41		MALI	113
URUGUAY	42		MAURITANIA	114
VENEZUELA	43		NIGER	115
EC-12	44		NIGERIA	116
BELGIUM-LUX	45		SENEGAL	117
DENMARK	46		SIERRE LEONE	118
FRANCE	47		TOGO	119
GREECE	48		CENTRAL AFRICA	120
IRELAND	49		CENTRAL AFRICAN REPUBLIC	121
ITALY	50		CONGO	122
NETHERLANDS	51		EQUATORIAL GUINEA	123
PORTUGAL	52		GABON	124
SPAIN	53		SAO TOME & PRINCIPE	125
UK	54		ZAIRE	126
UNITED GERMANY	55		EAST AFRICA	127
WEST GERMANY	56		BURUNDI	128
EAST GERMANY	57		DJIBOUTI	129
OTHER WESTERN EUROPE	58		ETHIOPIA	130
AUSTRIA	59		KENYA	131
FAEROE ISLANDS	60		RWANDA	132
FINLAND	61		SOMALIA	133
ICELAND	62		SUDAN	134
MALTA	63		TANZANIA	135
NORWAY	64		UGANDA	136
SWEDEN	65		SOUTHERN AFRICA	137
SWITZERLAND	66		ANGOLA	138
SOVIET UNION	67		BOTSWANA	139
EASTERN EUROPE	68		COMORO ISLANDS	140
ALBANIA	69		LESOTHO	141
BULGARIA	70		MADAGASCAR	142
CZECHOSLOVAKIA	71		MALAWI	143
HUNGARY	72		MAURITIUS	144

FAS Database Country/Region	FAS PS&D Country Number Code	FAS Database Country/Region	FAS PS&D Country Number Code
MOZAMBIQUE	145	PHILIPPINES	168
REUNION	146	SINGAPORE	169
SEYCHELLES	147	THAILAND	170
SWAZILAND	148	VIETNAM	171
ZAMBIA	149	SOUTH ASIA	172
ZIMBABWE	150	AFGHANISTAN	173
REPUBLIC OF SOUTH AFRICA	151	BANGLADESH	174
CHINA	152	BHUTAN	175
OUTER MONGOLIA	153	INDIA	176
EAST ASIA	154	NEPAL	177
HONG KONG	155	PAKISTAN	178
JAPAN	156	SRI LANKA	179
MACAO	157	AUSTRALIA	180
NORTH KOREA	158	NEW ZEALAND	181
SOUTH KOREA	159	PAPUA NEW GUINEA	182
TAIWAN	160	FIGI	183
SOUTHEAST ASIA	161	WEST SAMOA	184
BRUNEI	162	NEW CALEDONIA	185
BURMA	163	TONGA	186
INDONESIA	164	BRITISH SOLOMON ISLANDS	187
KHMER REPUBLIC	165	GILBERT & ELLICE ISLANDS	188
LAOS	166	NEW HEBRIDES	189
MALAYSIA	167		

Commodity in FAS 189 Country PS&D Database	Product/Product Group Contained in TS-VIEW SWOPSIM Database	* SWOPSIM Product Group Calculated from FAS PS&D Commodities:	
BEEFVEAL	BF - Beef and veal	1	
PORK	PK - Pork	2	
LAMBUTT	ML - Mutton and Lamb	3	
TOTPLTRY	PM - Poultry Meat	4	
EGGS	PE - Poultry Eggs	5	
FLUIDMLK	DM - Dairy - fresh Milk	6	
BUTTER	DB - Dairy - Butter	7	
CHEESE	DC - Dairy - Cheese	8	
NFDMILK	DP - Dairy - Powder	9	
WHEAT	WH - Wheat	10	
CORN	CN - Corn	11	
* Calc.	CG - other Coarse Grains	12	COARSEGR-CORN
RICE	RI - Rice	13	
SOYBEANS	SB - SoyBeans	14	
SOYMEAL	SM - SoyMeal	15	
SOYOIL	SO - SoyOil	16	
* Calc.	OS - Other oilSeeds	17	TOTSEEDS-SOYBEANS
* Calc.	OM - Other Meals	18	TOTMEALS-SOYMEAL
* Calc.	OO - Other Oils	19	TOTOILS-SOYOIL
COTTON	CT - Cotton	20	
SUGAR	SU - Sugar	21	
TOBUNMFG	TB - Tobacco	22	
DRYBEANS	BN - dry Beans	23	
COFFEE	CF - green Coffee	24	
HIDESKIN	HS - Hides and Skins	25	
CATTLEIN	CI - Cattle Inventory	26	
SWINEINV	PI - Pig Inventory	28	
SHEEPINV	SI - Sheep Inventory	28	
TALLOWGR	TG - Tallow and Grease	29	
SORGHUM	SG - Sorghum	30	
BARLEY	BY - Barley	31	
OATS	OT - Oats	32	
* Calc	OC - Other Coarse grains	33	COARSEGR-CORN-SORGHUM-OATS
RAPESEED	RS - RapeSeed	34	
SUNSEED	US - sunflower Seed	35	
PEANUTS	NS - peanuts	36	
* Calc	TS - other oilSeeds	37	TOTSEEDS-SOYBEANS-RAPESEED-SUNSEED-PEANUTS

-- = Standard  
22 Product  
Model

-- = Other Products  
in TS-VIEW SWOPSIM  
Database

--Subset of  
standard  
22 product  
Model

Commodity in FAS 189 Country PS&D Database	Product/Product Group Contained in TS-VIEW SWOPSIM Database	* SWOPSIM Product Group Calculated from FAS PS&D Commodities:	
RAPEMEAL	RM - Rapeseed Meal	38	
SUNMEAL	UM - sUnflower seed Meal	39	
PNUTMEAL	NM - peaNut Meal	40	
* Calc	TM - oTher Meals	41	TOTMEALS-SOYMEAL-RAPEMEAL-SUNMEAL-PNUTMEAL
RAPEOIL	RO - Rapeseed Oil	42	
SUNOIL	UO - sUnflower seed Oil	43	
PNUTOIL	NO - peaNut Oil	44	
* Calc	TO - oTher Oils	45	TOTOILS-SOYOIL-RAPEOIL-SUNOIL-PNUTOIL
TURKEY	TK - Turkey meat	46	
* Calc	BM - Broilers and other meat	47	TOTPLTRY-TURKEY

--Subset of  
standard  
22 product  
Model

The product (commodity) codes above, as well as the country/region codes in the 143 member SWOPSIM TS-VIEW database are unique. This means that any of these products or regions can be included together in a SWOPSIM model.

The programmatic use of the codes in this concordance can be found in Appendix 7 which lists the programs which move data from the FAS TS-VIEW database to SWOPSIM global models.

Product and country names listed in the concordance use capital letters to mark which letters of a full name are used for a mnemonic model 2 letter code. This convention is followed in most SWOPSIM model related publications as well as in SWOPSIM spreadsheets.



## Appendix 2--WD89-World Model Data

The following pages contain the output of the SWOPSIM programs EOUT and BOUT for each of the 33 countries/regions in the world model denoted WD89. The base quantity data have been globally balanced so that, in the aggregate, world net trade equals zero. This is necessary for SWOPSIM model construction, even though in practice the FAS data would never balance, for a variety of technical reasons.

Data are also provided for the newly created aggregate regions within the 11-country database known as SW89. Using SWOPSIM aggregation routines, this smaller model database was created for analysis of issues most of interest to industrial market economies. The first seven regions from the WD89 database were included, and four aggregate regions were created from the remaining 26 regions in the WD89 database, as detailed in the overview section of this report. This is an example of how many researchers would use any of the large databases presented in this report. Starting from the globally balanced data provided, SWOPSIM aggregation programs can be utilized to create world models with fewer regions for ease of manipulation, retaining only the individual countries/regions most of interest to the research at hand.

Two data pages, an elasticity page and a base data page, are presented for each country model. If the same country is part of a subsequent model, its data are not repeated. The data pages are identical to those created by the SWOPSIM output programs EOUT and BOUT. Recall that if products are not included in a model, blank rows will appear in these tables. This usually means that no quantity data were available for a country in the FAS PS&D database.

The global models in this and subsequent appendices are balanced globally and tested, in the sense that a world model has been created and successfully simulated.

The indicators, ratios, etc. calculated on the two pages have been found useful in judging model characteristics. For example, if elasticity row sums have the wrong sign, a cross elasticity is probably out of line. Value data provide a check on prices and the importance of a sector. The TDS measure (of trade distorted by support) gives a rough estimate of the trade effects expected when support is removed in a country. Summary quantity data percentages give an overall feel for the support characteristics of the country's agricultural economy.

Country model, support, and base data spreadsheet files are labeled by the model name and country code. However, in the 1989 database, when a country model is repeated in more than one global model, the original source model name follows it. For example, the U.S. model is sourced in the WD89 model. So when the U.S. model spreadsheet is also included in the EU89 world model, it retains the name WD89bUS. This naming scheme helps ERS keep track of the original model home of country models.

Finally, for each database we have included the matrix defining country and commodity coverage, and charts showing the 10 largest exporting and importing countries/regions in the database for beef, wheat, and rice. Note that the rest-of-world region could represent a large number of countries for a product such as beef where commodity coverage in the FAS database excludes many developing countries.

# Country/region coverage in the WD89 Database

Code	Country/region
US	United States
CN	Canada
EC	European Community
WE	Other Western Europe
JP	Japan
AU	Australia
NZ	New Zealand
SF	South Africa
EE	Eastern Europe
SV	Soviet Union
CH	Peoples' Republic of China
MX	Mexico
CA	Central America & Caribbean: Central America, Caribbean
BZ	Brazil
AR	Argentina
VE	Venezuela
LA	Other Latin America: Bolivia, Chile, Colombia, Ecuador, Guyana, Paraguay, Peru, Surinam, Uruguay
NG	Nigeria
AF	Other Subsaharan Africa: Benin, Burkina Faso, Cameroon, Cape Verde, Chad, Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Liberia, Mali, Mauritania, Niger, Senegal, Sierra Leone, Togo, Central Africa, East Africa, Angola, Botswana, Comoro Islands, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Reunion, Seychelles, Swaziland, Zambia, Zimbabwe
EG	Egypt
MP	Middle East & North Africa - oil producers: Syria, Iraq, Iran, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, Oman, Bahrain, Algeria, Tunisia, Libya
MO	Middle East & North Africa - other countries: Turkey, Cyprus, Lebanon, Israel, Jordan, North Yemen, South Yemen, Morocco
ND	India
OS	Other South Asia: Afghanistan, Bangladesh, Bhutan, Nepal, Pakistan, Sri Lanka, Papua New Guinea, Fiji, West Samoa, New Caledonia, Tonga, British Solomon Islands, Gilbert & Ellice Islands, New Hebrides
DO	Indonesia
TH	Thailand
ML	Malaysia
PH	Philippines
SA	Other Southeast Asia: Brunei, Burma, Khmer Republic, Laos, Singapore, Vietnam
SK	South Korea
TW	Taiwan
EA	Other East Asia: Hong Kong, Macao, North Korea
RW	Rest-of-world

WD89	SWOPSIM World net trade model for 1989																												1989 World price							
	DC-----CP-----LA-----ME-----AS-----RW														Master file prepared by ERS																					
	US	CN	EC	WE	JP	AU	NZ	SF	EE	SV	CH	MX	CA	BZ	AR	VE	LA	NG	AF	EG	MP	MO	ND	OS	DO	TH	ML	PH	SA	SK	TW	EA	RW	WD89		
BF	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	WDPRIC	
PK	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	2567	
ML	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	2176	
PM	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	2321	
PE	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	1039	
DM	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	1696	
DB	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	272	
DC	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	2866	
DP	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	3009	
WH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	169	
CN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	111	
CG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	105
RI	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	320
SB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	275
SM	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	247
SO	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	431
OS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	630
OM	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	200
OO	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	774
CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1674
SU	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	282
TB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3844
<																																			>	

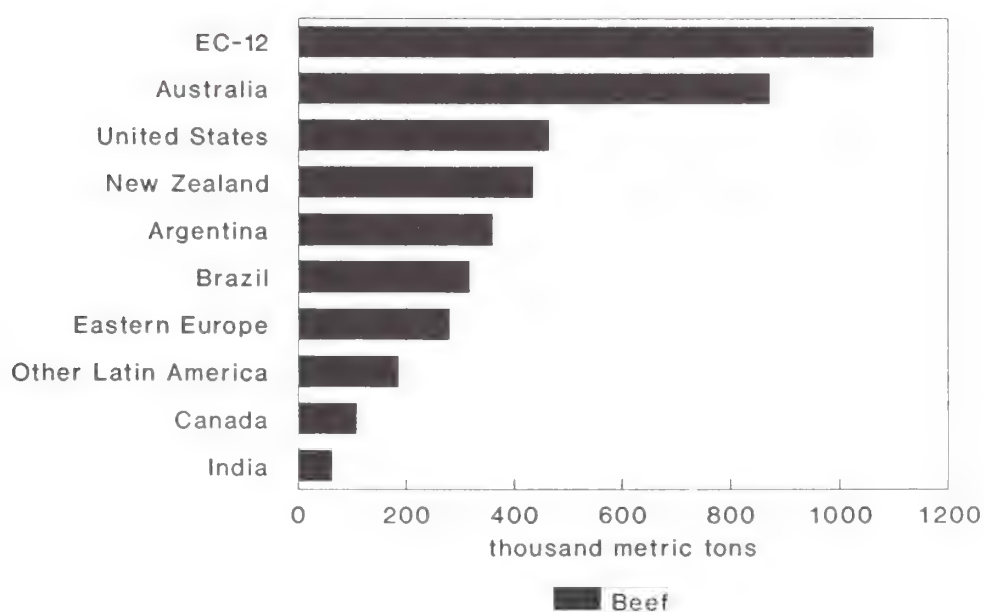
# CODE DEFINITION OF MATRIX CELL CODES

## SECTOR CODES

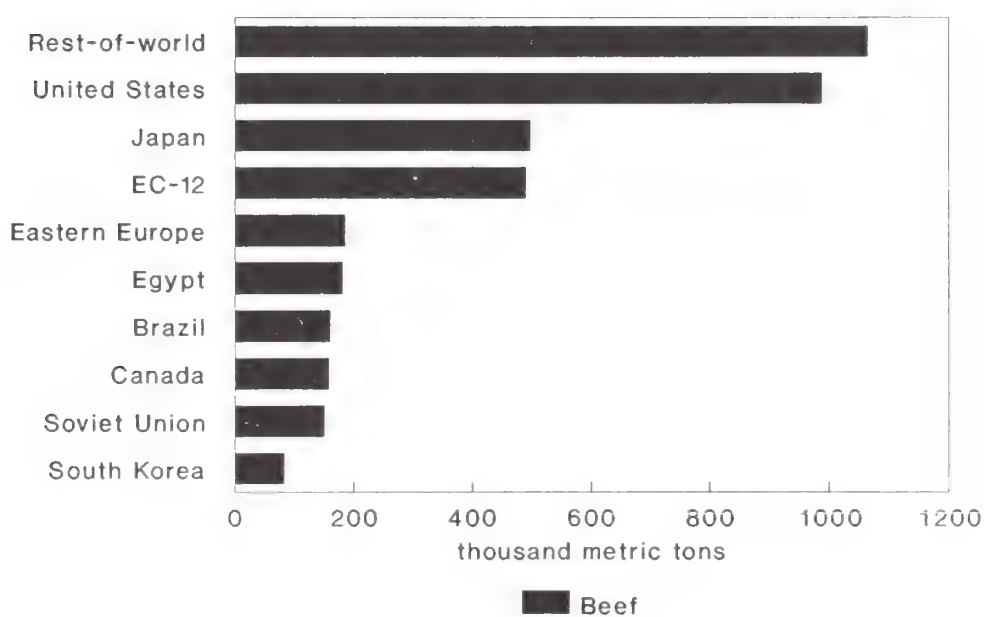
- No equation created for this country/region & product (however, note that RW region MUST have equations for all products to close world model).
- Supply and demand equations created for this country/region & product.
- Supply and demand equations created AND demand quantity for this country/region & product can be included in any SUPPLY equation.
- Supply and demand equations created AND supply quantity for this country/region & product can be included in any DEMAND equation.
- Supply and demand equations created AND demand quantity for this country/region & product can be included in any SUPPLY equation AND supply quantity for this country/region & product can be included in any DEMAND equation.

- IU Input Using sector
- I Input (e.g. feed)
- IB Input and input using (Both)
- IN intermediate demand Input
- OU intermediate demand Output
- NT Non-Traded product

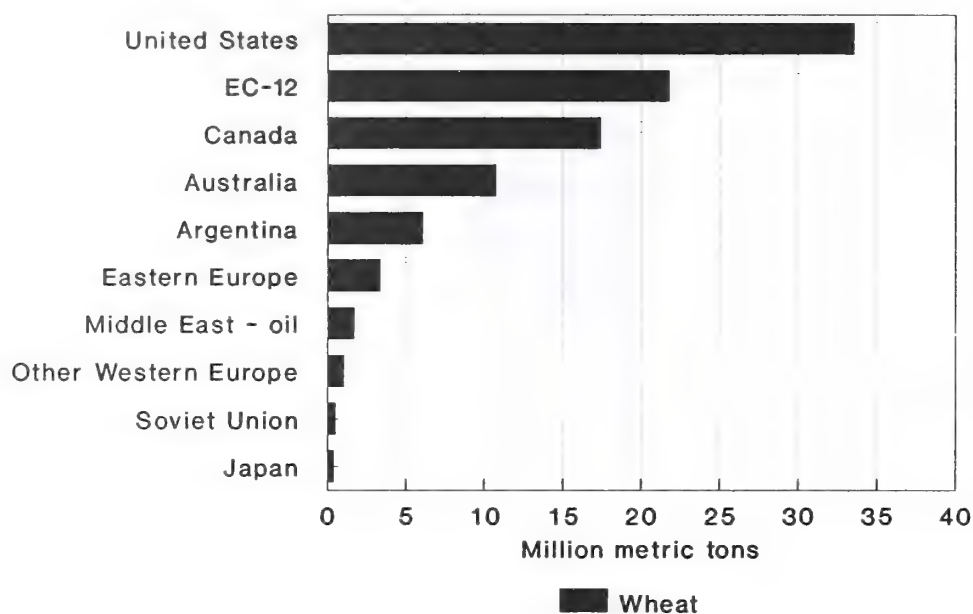
## Top 10 Exporters in the WD89 Database



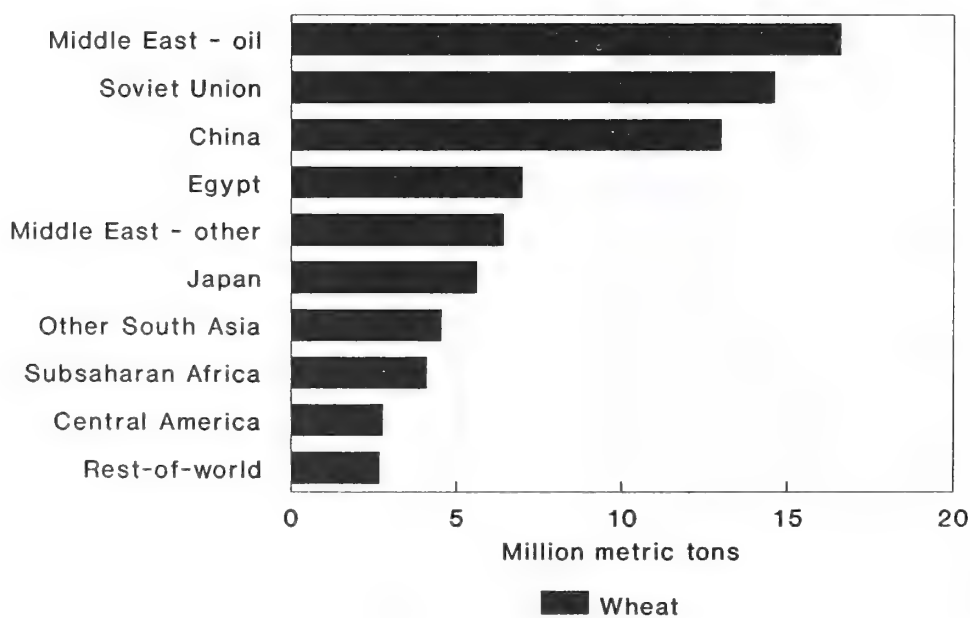
## Top 10 Importers in the WD89 Database



## Top 10 Exporters in the WD89 Database

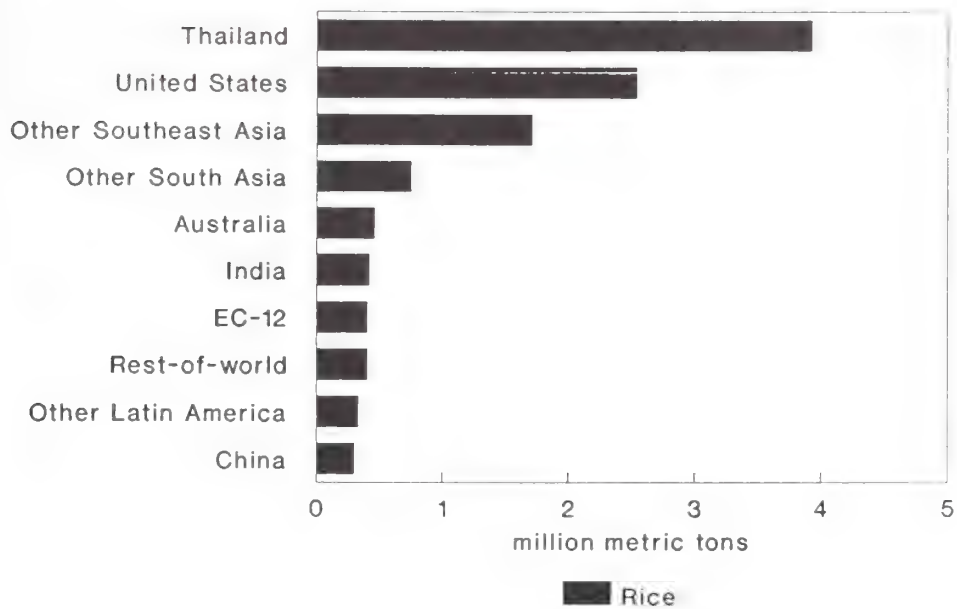


## Top 10 Importers in the WD89 Database

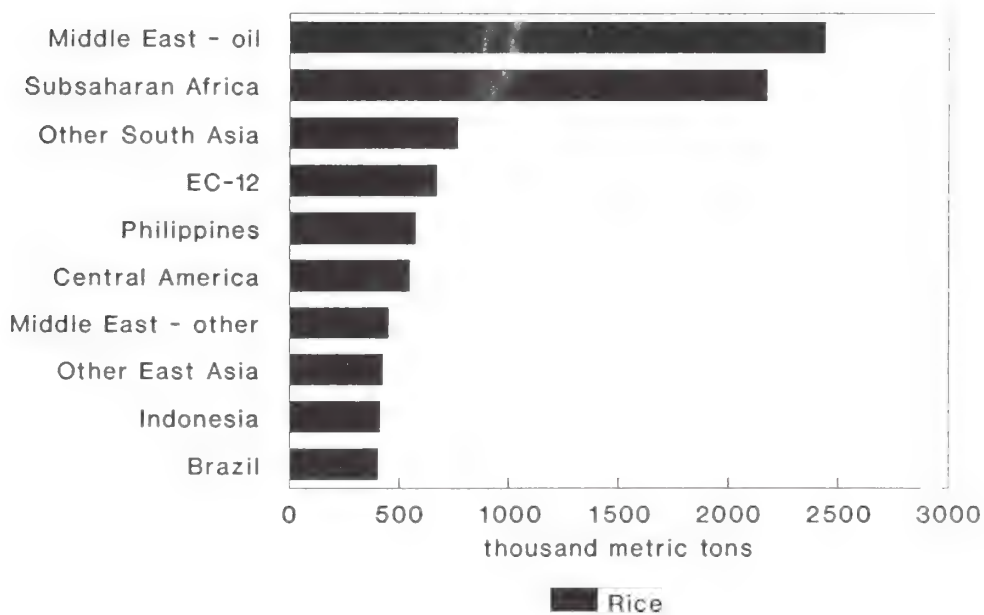




## Top 10 Exporters in the WD89 Database



## Top 10 Importers in the WD89 Database





Summary of support (%):	Support PSE	Measures CSE	Value share of -Prod, -Cons.	-----Share of----- Produce, Support	Agric. Budget	Source- Consumer Transfer	Summary of base information:	Million US \$	Base model spreadsheet Support spreadsheet	WD99tUS WD99sUS
Wheat & eggs	1.0	-2	37.4	47.9	3.9	4.8	Production Value	155302		
Barley	23.4	-12.2	20.1	24.4	47.1	8.6	Market Value	149060		
Food crops	19.1	-6	5.8	2.5	13.6	8	Consumption Value	217296	Model spreadsheet	1
Wood crops	17.6	-2	14.0	7.3	29.9	1	Government Expenditures	7546	Support spreadsheet	1
Oilseeds, prod.	7.9	-6.6	16.9	12.2	8	58.4	Producer Support	14840	Currency unit per US\$	US\$
Other crops	7.9	-6.6	5.8	5.7	4.7	1.7	Consumer Transfer	-7549	Base year	1989
Animal Products	8.8	-4.2	57.5	72.3	51.0	13.4	Total TDS Estimate	3012		
Grains, oilseeds	9.7	-1.5	42.5	27.7	49.0	86.6				
Other products	10.0	-3.5	100.0	100.0	100.0	100.0	Last update	1/ 7/92		
							Date printed	2/ 4/92		
							Base data		----->	WD99tUS

Supply Elasticity Matrix for --> W089BCN																
1989																
SUPPLY ELASTICITIES																
	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO
BF																
PK	.50															
ML	1.50															
PM																
PE																
DM																
DB																
DC																
DP																
WH																
CN																
CG																
RI																
SB																
SM																
SO																
OS																
OM																
CO																
CT																
SU																
TB																

Demand Elasticity Matrix for --> W089BCN																
1989																
DEMAND ELASTICITIES																
	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO
BF																
PK																
ML																
PM																
PE																
DM																
DB																
DC																
DP																
WH																
CN																
CG																
RI																
SB																
SM																
SO																
OS																
OM																
CO																
CT																
SU																
TB																

Product definition and mnemonic:

BF	Beef and veal
PK	Pork
ML	Mutton and Lamb
PM	Poultry Meat
PE	Poultry, Eggs
DM	Dairy - fluid Milk
DB	Dairy - Butter
DC	Dairy - Cheese
DP	Dairy - milk Powder
WH	Wheat
CN	Corn
CG	other Coarse Grains
RI	Rice
SB	Soybeans
SM	SoyMeal
SO	SoyOil
OS	Other oilSeeds
OM	Other Meals
CO	Other Oils
CT	Cotton
SU	Sugar (refined)
TB	Tobacco

Shares of Product Going to Intermediate Demand for --> W089BCN																
1989																
Shares of Product Going to Intermediate Demand for --> W089BCN																
Supply-->	SBF	SPK	SML	SPM	SPE	SDM	SDB	SDC	SDP	SDM	SSD	SSM	SSD	SSM	SSD	SSM
DM																
WH																
CN																
CG																
SB																
SM																
OS																
OM																

Date printed		2/ 3/1992
Last update		1/ 7/1992
Base year		1989
Exchange rate (LC/US\$)		1.0
Transmission elast.		.0250
Income growth rate		.0050
Population growth rate		.381981
Income (Million US\$)		25986
Population (1000)		14699
Per Capita Income (\$)		1089BCN
Model spreadsheet		---

Feed Ratios (Total feed/animal prod.)		Row	Sum	Final	Dem.	Share	Elas.
SBF	SPK	SML	SPE	SDM	SSD	SSM	SSD
3.90	6.53	4.83	5.19	.53	.65	.35	-.10
Feed mix percent by animal product.							
SBF	SPK	SML	SPE	SDM	SSD	SSM	SSD
15	14	16	16	15	.43	.57	-.10
31	26	26	23	31	.83	.17	-.10
50	49	48	53	50	.87	.13	-.10
4	9	7	6	3	.90	.10	-.30
1	3	2	2	1	.93	.07	-.10
Estimated protein percentage							
SBF	SPK	SML	SPE	SDM	SSD	SSM	SSD
12.3	14.4	14.0	13.6	12.1	1.00	.06	-.40
Av. meal/grain price ratio =							
2.38	12.1	13.6	12.1	13.4	.94	.06	-.10
Av. meal/grain price ratio =							
13.4	13.4	13.4	13.4	13.4			





[illegible][illegible]

Shares of Product Going to Intermediate Demand for --> M089EC													Date printed			
Supply-->													Last update			
	SBF	SPK	SNL	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSO	SDM	SOO	Row Sum	Final Dem. Share	Final Dem. Share Elas.
DM	.05	.15	.01	.05	.04	.11	.18	.44	.14					.76	.24	-.10 DM
WH	.09	.27	.01	.08	.07	.21								.41	.60	-.10 WH
CG	.08	.30	.01	.09	.09	.19								.73	.27	-.10 CG
OS														.76	.24	-.10 OS
SB	.07	.52	.01	.15	.11	.14				.77	.17			.95	.05	-.34 SB
SM														1.00	-.10 SM	
OS												.52	.48	1.00	-.38 OS	
OM	.06	.51	.01	.16	.12	.14								1.00	-.10 OM	

Feed Ratios (Total feed/animal prod.)													Base year ----->>>			
	SBF	SPK	SNL	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSO	SDM	SOO	Feed mix percent by animal product.	Elasticities for -->	
	1.58	3.70	1.16	2.48	2.56	.24								..Feed mix percent by animal product.		
	25	18	24	20	19	24	WH							..Estimated protein percentage...		
	21	16	20	15	15	22	OM							SBF	SPK	SNL
	36	33	39	33	38	38	CG							16.1	21.2	16.2
	31	21	11	19	17	10	SM							Av. meal/grain price ratio =	15.7	15.7
	6	12	7	13	11	6	OM							Av. feed protein percent =	19.1	19.1
														Model spreadsheet -->>>		
														M089EC		
														M089EC		



[illegible]

Demand Elasticity Matrix for --> US\$964E																						1989		DEMAND ELASTICITIES										Product definition and mnemonics:	
	BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	ROW	S-D											
BF	-.70	.18																					Sum	1.08	Beef and veal										
PK	.16	-.60																					Sum	-.42	Pork										
ML			-.47																				Sum	1.09	Mutton and Lamb										
PM		.02	.01																				Sum	-.52	Poultry Meat										
PE			-.65																				Sum	-.35	Poultry, Eggs										
DM		.13			-.35			.03	.01														Sum	-.63	Dairy - fluid Milk										
D8						-.12	.01	-.45															Sum	-.45	Dairy - Butter										
DC							-.48																Sum	-.48	Dairy - Cheese										
DP								-.40															Sum	-.40	Dairy - milk Powder										
WH									-.25														Sum	-.10	Wheat										
CN									.03	-.01								.03					Sum	-.20	Corn										
CG									.07	-.61								.04					Sum	-.35	other Coarse Grains										
RI									.08	.05				-.44									Sum	-.36	Rice										
SB											.04			-.32				.04					Sum	-.05	Soybeans										
SM												.41			-.71				.20				Sum	-.21	SoyMeal										
SO																.45		.20	.23				Sum	-.23	SoyOil										
OS																	-.38	.10	.23				Sum	-.05	Other oilSeeds										
OM																		-.70					Sum	-.15	Other Meals										
OO																.05			-.50				Sum	-.45	Other Oils										
CT																				-.20			Sum	-.20	Cotton										
SU																					-.29		Sum	-.74	Sugar (refined)										
TB																						-.50	Sum	-.70	Tobacco										

Shares of Product Going to Intermediate Demand for --> W89HAE													Date printed		
Supply-->													Last update		
DM	SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SS0	SO0	Row Sum	Final Dem. Share	Final Dem. Elas.
							.19	.40	.10				.69	.31	-.10
DM															
WH	.06	.06		.01	.02	.13							.28	.72	-.10
CG	.21	.20		.04	.05	.43							.93	.07	-.10
CG	.17	.20		.04	.05	.36							.82	.18	-.10
SB															
SM	.13	.49		.06	.07	.24				.82	.18		1.00	.01	-.32
DS															
DM	.13	.48		.06	.07	.24				.63	.37		1.00	.98	-.38

Feed Ratios (Total feed/animal prod.)													Elasticities for -->	
SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SS0	SO0	Row Sum	Final Dem. Share	Final Dem. Elas.
3.99	2.87	2.61	3.23	3.45	.34									
..Feed mix percent by animal product.														
SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SS0	SO0	Row Sum	Final Dem. Share	Final Dem. Elas.
10	7	10	11	11	14	14	14	14	14	14	14	14	14	14
14	10	13	11	11	14	14	14	14	14	14	14	14	14	14
67	58	74	65	63	68	68	68	68	68	68	68	68	68	68
5	13	7	9	8	4	5	4	5	4	5	4	5	4	5
4	12	6	8	8	4	5	4	5	4	5	4	5	4	5
..Estimated protein percentage...														
SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SS0	SO0	Row Sum	Final Dem. Share	Final Dem. Elas.
14.1	19.1	15.6	16.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
Av. meal/grain price ratio = 1.17														
Av. feed protein percent = 15.6														

Base year ----->>>													Date printed	
Last update													Last update	
Base year ----->>>													Last update	
Exchange rate (LC/US\$)													Last update	
Transmission elast.													Last update	
Income growth rate													Last update	
Population growth rate													Last update	
Income (Million US\$)													Last update	
Population (1000)													Last update	
Per Capita Income (\$)													Last update	
Model spreadsheet ---->>>													Last update	

Base year ----->>>													Date printed	
Last update													Last update	
Base year ----->>>													Last update	
Exchange rate (LC/US\$)													Last update	
Transmission elast.													Last update	
Income growth rate													Last update	
Population growth rate													Last update	
Income (Million US\$)													Last update	
Population (1000)													Last update	
Per Capita Income (\$)													Last update	
Model spreadsheet ---->>>													Last update	

ME	Prod. SUPPLY	-----Base Quantity Data (1000 MT)-----		Imports		World		-----Base Price Data (US\$/MT)-----		Consumer		Trade share C		Producer		---Base Values (M. US\$)---		---Projection parameters		Product definition and inmanon:		Trade D.	
1989		Cons. DEMAND	P-C-E-I INTRADE	Exports	Imports	MRPRICE	MRPRICE	MRPRICE	MRPRICE	MRPRICE	MRPRICE	MRPRICE	MRPRICE	MRPRICE	MRPRICE	MRPRICE	BOVALUE	G. Exp. GAEPS	Supprow INELAS	Elas: PTIELAS			
BF	616	583	33	63	30	2567	4414	4414	8025	1698	55	2719	4679	171	004	17	4679	171	004	17	BF	Beef & veal	792
PK	1165	1117	48	67	19	2176	2308	2308	4602	1476	50	2699	5140	71	011	18	5140	71	011	25	PK	Pork	1043
ML	185	243	58		58	3231	3804	3804	7608	3204	50	336	38		003	23	38		003	23	ML	Mutton & Lamb	4
PM	222	271	49		20	1039	1814	1814	3208	192	55	336	801	04	013	16	801	04	013	16	PM	Poultry Meat	54
PE	15271	15271			68	1696	1184	1184	2093	496	60	263	568	009	009	12	263	009	009	12	PE	Poultry, Eggs	64
DM						272	490	490	913	365	50	7483	13937	1028	007	07	13937	1028	007	07	DM	Dairy - fluid Milk	
D8					3	2866	5163	5163	6454	1959	80	1213	1226	154	007	09	1226	154	007	09	D8	Dairy - Butter	227
DC					56	3009	5421	5421	7744	2057	80	2645	3074	494	007	27	3074	494	007	27	DC	Dairy - Cheese	522
DP					147	4190	4190	4190	5238	1590	80	536	498	88	007	35	498	88	007	35	DP	Dairy - Powder	77
DN					613	169	216	216	204	169	90	948	1171	106	015	15	1171	106	015	15	DN	Wheat	145
CG					150	111	212	212	233	187	90	360	390	3	016	15	390	3	016	15	CG	O. Coarse Gr.	44
RI					417	105	212	212	234	156	90	2262	2254	100	011	13	2254	100	011	13	RI	Rice	596
SB					152	320	480	480	960	490	95	146	191	15	010	10	191	15	010	10	SB	Soybeans	7
SM					512	275	346	346	364	316	95	278	278		011	22	278		011	22	SM	SoyMeal	
SD					639	247	247	247	309	247	80	39	164		011	31	164		011	31	SD	SoyOil	
OS					111	431	431	431	862	431	50	352	406	28	011	01	406	28	011	01	OS	O. oilSeeds	77
OM					128	630	488	488	542	383	80	352	406		008	09	406		008	09	OM	O. Meals	
OO					328	200	200	200	250	200	80	152	208		008	31	208		008	31	OO	Other Oils	
CT					280	774	774	774	1548	774	50	340	378	69	008	03	378	69	008	03	CT	Cotton	85
SU					116	1674	1674	1674	3348	1674	50	383	378		005	01	378		005	01	SU	Sugar (rfind.)	
TB					477	282	369	369	738	224	50	383	361		010	30	361		010	30	TB	Tobacco	
BU					76	3844	3844	3844	7688	3844	50	8	361		010	30	361		010	30	BU		

ME	Prod. SUPPLY	Base Quantity Data (1000 MT)	Imports	World	Base Price Data (US\$/MT)	Consumer	Trade share C	Producer	Base Values (M. US\$)	Projection parameters	Product definition and inmanon:	Trade D.		
1989		Cons. DEMAND	Exports	Imports	Market PRICE	Producer PRICE	MRPRICE	MRPRICE	Prod. BOVALUE	G. Exp. GAEPS	Supprow INELAS	Elas: PTIELAS		
BF	616	583	33	63	4414	4414	8025	1698	2719	4679	171	004	10	792
PK	1165	1117	48	67	2308	2308	4602	1476	2699	5140	71	011	25	1043
ML	185	243	58	58	3804	3804	7608	3204	336	38	003	23	60	4
PM	222	271	49	20	1814	1814	3208	192	336	801	013	23	60	54
PE	15271	15271	20	20	1266	1184	2093	496	263	568	009	12	25	64
DM	4399	4399	45	48	490	490	913	365	7483	13937	1028	007	10	227
D8	235	190	91	147	5163	5163	6454	1959	7483	1226	1226	007	10	522
DC	488	397	34	34	5421	5421	7744	2057	2645	3074	494	007	10	522
DP	128	95	33	34	4190	4190	5238	1590	536	498	88	007	10	77
DN	1698	1698	403	1016	216	216	204	169	948	1171	106	015	15	145
CG	10670	1676	172	1438	212	212	233	187	360	390	3	016	20	44
RI	152	152	1021	1021	212	212	234	156	2262	2254	100	011	25	596
SB	12	524	152	152	480	480	960	490	4	146	010	010	65	7
SM	401	900	512	512	346	346	364	316	99	191	15	011	100	7
SD	91	190	12	12	247	247	309	247	278	278	011	011	100	77
OS	722	769	99	119	431	431	862	431	39	164	011	011	100	77
OM	760	834	74	254	488	488	542	383	352	406	008	008	100	77
OO	439	459	20	280	200	200	250	200	152	208	008	008	100	77
CT	1037	113	113	3	774	774	1548	774	340	711	008	008	100	85
SU	2	1438	401	76	1674	1674	738	1674	383	378	005	005	100	85
TB		47	45	9	3844	3844	7688	3844	8	361	010	010	100	85

Summary of support (1989)	Support Measures	Value share of -Cons.	Share of -Source-	Summary of base information:	Million US \$	Base model spreadsheet -->	Support spreadsheet -->
Meat & eggs	51.4	26.4	35.2	Production Value	22851	Exchange rates in:	1
Dairy	39.1	51.9	52.7	Market Value	22867	Model spreadsheet	1
Food crops	21.5	4.1	2.3	Consumption Value	37681	Support spreadsheet	1
Feed crops	24.5	11.5	7.3	Government Expenditures	1991	Currency unit per US\$	US\$
Oilseeds, prod.	7.7	4.3	4.8	Producer Support	8814	Base year	1989
Other crops	38.4	1.7	3.5	Consumer Transfer	-7169		
Animal Products	43.3	78.4	87.8	Total TDS Estimate	3740		
Crops, oilseeds	21.7	21.6	12.2	Last update	12/21/91		
All products	38.5	100.0	100.0	Date printed	4/16/92		

[illegible][illegible]

Shares of Product Going to Intermediate Demand for --> WD89bUP													Date printed			
Supply-->													Last update			
DM	SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSD	SDM	SDO	Row Sum	Final Dem. Share	Final Elast.
							.11	.04	.26					.41	.59	-.10 DM
WH															1.00	-.10 WH
CN	.07	.19		.15	.25	.11								.77	.23	-.10 CN
CG	.07	.23		.18	.35	.11								.94	.07	-.10 CG
SB														.82	.18	-.19 SB
SM	.04	.34		.21	.32	.06				.67	.16			.97	.03	-.10 SM
OS														1.00		-.32 OS
OM	.04	.33		.22	.34	.06						.62	.38	.99	.01	-.10 OM
Feed Ratios (Total feed/animal prod.)													Elasticities for -->			
SBF SPK SML SPM SPE SDM WH													WD89bUP			
3.26 4.01 3.18 3.29 .35													WD89bUP			
.Feed mix percent by animal product.													WD89bUP			
SBF SPK SML SPM SPE SDM WH													WD89bUP			
64 48 52 50 64 CN													WD89bUP			
23 22 26 24 CG													WD89bUP			
8 19 16 14 8 SM													WD89bUP			
5 12 11 10 5 CM													WD89bUP			
..Estimated protein percentage...													WD89bUP			
SBF SPK SML SPM SPE SDM WH													WD89bUP			
14.0 19.8 18.4 17.6 13.9													WD89bUP			
Av. meal/grain price ratio = 1.47 <-													WD89bUP			
Av. feed/protein percent = 17.7 <-													WD89bUP			
Base year ----->													WD89bUP			
Exchange rate (LC/US\$)													WD89bUP			
Transmission elast.													WD89bUP			
Income growth rate													WD89bUP			
Population growth rate													WD89bUP			
Income (Million US\$)													WD89bUP			
Population (1000)													WD89bUP			
Per Capita Income (\$)													WD89bUP			
Model spreadsheet ---->													WD89bUP			
5/ 8/1997													WD89bUP			
5/ 7/1992													WD89bUP			
1989													WD89bUP			





Supply Elasticity Matrix for --> W089b4U																						Value (Million US\$) of	
1989																						Self Suffic. Ratio	Production Exports
SUPPLY ELASTICITIES																							
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	
BF	-.70	-.03	-.05		-.05				-.02		-.01			-.01			-.02					BF	
PK	-.14	.80							-.13													PK	
ML	-.28		.70		-.05				-.07		-.13		-.02				-.03					ML	
PM	-.07								-.03		-.07			-.01			-.01					PM	
PE											-.03											PE	
DM	-.07		-.01	-.02	.60	.50																DM	
DB					-.22	-.42	-.60	.45														DB	
DC					-.22	-.29	-.87	-.31														DC	
DP					-.22	-.42	-.60	.45														DP	
WH									.90		-.15	-.01										WH	
CN									-.06	.80	-.32											CN	
CG									-.48	-.01	-.93	.60										CG	
RI									-.17													RI	
SB													.50									SB	
SM													-.37	.30								SM	
SO													-.37	.30	.12							SO	
OS													-.02		.12	.60						OS	
OM																-.52	.20					OM	
OO																-.52	.20	.37				OO	
CT																			.50			CT	
SU																				.50		SU	
TB																					.50	TB	
																						Row Sum	
																						50	

Demand Elasticity Matrix for --> W089b4U																							DEMAND ELASTICITIES											1989	Product definition and mnemonic:
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	S-D Sum												
BF	-.78	.10	.15																			BF	1.06												
PK	-.19	-1.02	.18	.15																		PK	-.87												
ML	.50	.31	-1.20	.17																		ML	-.59												
PM		.25	-.17	-.80																		PM	-.77												
PE				-.25																		PE	-.67												
DM				-.13			.05	.02														DM	.41												
DB				-.45			-.40															DB	.50												
DC								-.45														DC	.45												
DP																						DP	.50												
WH								-.35									.01					WH	.20												
CN								.23					.01		.01		-.01					CN	.08												
CG								.24				-.49	.02		.04		.04					CG	.50												
RI												-.45	.25		.09							RI	.63												
SB													-.39									SB	.88												
SM													-.70		.09		.04					SM	.38												
SO														-.95		.70						SO	.28												
OS															-.24	.12	.07					OS	.61												
OM													.02		.09	-.71	-.65					OM	.19												
OO									.16													OO	.61												
CT																	-.20					CT	.30												
SU																		-.25				SU	.75												
TB																						TB	1.00												

Shares of Product Going to Intermediate Demand for --> M089b4U														Date printed	
Supply-->														Last update	
DM	WH	CN	CG	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	Final Dem. Share	Final Elas.

AU	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				-----Projection parameters G. Exp. & Price Trans. Elast. SUPGROW INCELAS PTELAS				Product definition and immanic:	Trade D. M US\$ VTDS	
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I TRADE	Exports EXPORTS	Imports IMPORTS	World WOPRICE	Market MKPRICE	Consumer CNPRICE	Producer PRPRICE	Trade share C. TPRICE	PRSHARE	Prod. BPVALUE	Cons. BCVALUE	GAEH\$	SUPGROW	INCELAS	PTELAS		
BF	1565	693	872	872	20	2567	1966	3574	1966	1966	.55	3076	2477	.009	.18	BF	Beef & veal		
PK	302	295	193	193	3	2176	2176	4352	2176	2176	.50	657	1284	.022	.31	PK	Pork		
ML	585	392	193	193	8	2321	1954	1908	954	954	.50	558	748	-.005	.75	ML	Mutton & Lamb		
PM	406	405	1	1	1	1039	1039	1889	1039	1039	.55	422	765	.034	.75	PM	Poultry Meat		
PE	199	193	6	6	6	1696	1696	2827	1696	1696	.60	337	545	.014	.29	PE	Poultry, Eggs		
DM	6465	6465	52	52	20	2866	2781	3477	2781	2781	.80	267	153	.016	.24	DM	Dairy - fluid Milk		
DB	96	44	71	71	3	272	271	543	271	271	.50	2117	3510	.016	.31	DB	Dairy - Butter		
DC	190	151	39	39	3	3009	2920	4172	2920	2920	.70	555	630	.016	.04	DC	Dairy - Cheese		
DP	127	56	71	71	3	2326	2257	2822	2257	2257	.80	287	158	.016	.10	DP	Dairy - Powder		
WH	14121	3408	10713	10713	8	169	196	279	196	196	.70	2763	952	.020	.08	WH	Wheat		
CN	202	166	36	36	8	111	111	123	111	111	.90	22	20	.015	.05	CN	o. Coarse Gr.	5	
CG	6695	3829	2866	2874	10	105	129	144	129	129	.90	865	550	.018	.24	CG	o. Rice		
RI	660	209	451	461	42	320	275	253	275	275	.95	83	53	.025	.15	RI	Soybeans		
S8	90	132	-42	-42	3	275	275	289	275	275	.80	25	38	.015	1.00	S8	SoyMeal		
SM	104	107	-3	-3	3	247	247	309	247	247	.80	26	33	.015	1.00	SM	SoyMeal		
SO	23	55	-32	-32	2	431	431	862	431	431	.50	10	47	.015	1.00	SO	SoyOil		
OS	647	490	157	172	15	630	630	700	630	630	.90	408	343	.015	1.00	OS	o. oilSeeds		
OM	217	232	-15	6	21	200	200	250	200	200	.80	43	58	.015	1.00	OM	o. Meals		
OO	103	230	-127	1	128	774	774	1548	774	774	.50	80	356	.015	1.00	OO	Other Oils		
CT	305	33	272	272	9	1674	910	1820	896	896	.50	278	60	.023	.38	CT	Cotton		
SU	3680	820	2860	2860	9	282	216	432	190	190	.50	796	355	.010	.11	SU	Sugar (rfind.)	3	
TB	13	22	-9			3844	3844	7688	3844	3844	.50	50	169	.015	.70	TB	Tobacco	42	
AU	1989																	Set-aside P. Cons. Share US \$/MT	
BF																		PESE	CBSE
PK																		S-SIDE	SUP/TAX
ML																			
PM																			
PE																			
DM																			
DB																			
DC																			
DP																			
WH																			
CN																			
CG																			
RI																			
S8																			
SM																			
SO																			
OS																			
OM																			
OO																			
CT																			
SU																			
TB																			
Summary of support (%):																			
Meat & eggs																			
Dairy																			
Food crops																			
Feed crops																			
Oilseeds, prod.																			
Other crops																			
Animal Products																			
Crops, oilseeds																			

[illegible]

NZ	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters & Price Trans. Elast. PIELAS				Product definition and mnemonic:	Trade D. M US\$ VIDS
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I	Exports	Imports	World	Market	Consumer	Produce	Trade share C.	Prod. BVALUE	Cons. G. Exp.	Price Trans.	Elast.	PIELAS			
	550	115	435	435		2567	1221	1286	2220	1221	707	255	.010	.14	.50	BF	Beef & veal	20
	44	46	-2			2176	2176	2176	4352	2176	96	200	.015	.26	.80	PK	Pork	38
	574	72	502	502	2	2321	688	776	1375	688	446	99	.011	.14	.50	ML	Mutton & Lamb	
	55	55				1039	1039	1039	1889	1039	57	104	.031	.24	.80	PM	Poultry Meat	
	7406	7406				272	189	197	377	189	1460	2792	.017	.08	1.00	DM	Dairy - fluid Milk	
	246	10	236	236		2866	1923	1923	2404	1923	473	24	.017	.19	1.00	DB	Dairy - Butter	
	128	34	94	94		3009	2019	2019	2885	2019	258	98	.017	.42	1.00	DC	Dairy - Cheese	
	181	27	154	154		2326	1561	1561	1951	1561	283	53	.017	.18	1.00	DP	Dairy - Powder	
	135	325	-190	15	205	169	169	169	241	169	23	78	.005	-.07	1.00	WH	Wheat	
	139	164	-25		25	111	111	111	123	111	15	20	.030	-.15	1.00	CN	Con	
	397	402	-5		5	105	105	105	117	105	42	47	.010	-.13	1.00	CG	Coarse Gr.	
						275	275	275	289	275			.013	.23	1.00	SB	Soybeans	
		5	-5		5	247	247	247	309	247		2	.013	.05	1.00	SM	SoyMeal	
		17	-17		17	431	431	431	862	431		15	.013	.33	1.00	SO	SoyOil	
		15	-15		15	630	630	630	700	630		11		.27	1.00	OS	O. oilSeeds	
						200	200	200	250	200		26	.05	.05	1.00	OM	O. Meals	
		17	-17		17	774	774	774	1548	774			.33	.33	1.00	OO	Other Oils	
	1	160	-160		160	282	282	282	564	282	4	90		.19	.50	SU	Sugar (rfind.)	
		5	-4		4	3844	3844	3844	7688	3844		38		.28	1.00	TB	Tobacco	
NZ	---Producer and Consumer Subsidy Equivalent Rates--- Mkt. S. ---Budget Wedges (US \$/MT)--- Set-aside P. ---Import Export Prod. Cons. Share US \$/MT																	
1989	DPSW	CSW	ESW	MSW	DPSM%	CSM%	ESM%	MSM%	PSE1P%	CSE1P%	PSE	CSE	MS	MBSE	EBSE	PBSE	CSSE	SUPTAX
BF	65				5.0				5.0		65							65
PK					11.4				11.4		89							89
ML																		
PM																		
DM	9				4.4				4.4		9							9
DB																		
DC																		
DP																		
WH																		
CN																		
CG																		
SB																		
SM																		
SO																		
OS																		
OM																		
OO																		
SU																		
TB																		
Summary of support (%):	Support Measures PSE	Value share of -Prod.	Share of -Cons.	Share of -Source- Agnric. Budget	Consumer Transfer	Summary of base information:	Production Value	Market Value	Consumption Value	Government Expenditures	Producer Support	Consumer Transfer	Total TDS Estimate	Last update	Date printed	12/21/91	2/ 4/92	
Meat & eggs	6.5	32.8	16.7	57.5	57.5	Production Value	3864	3713	3953	150	150	150	58					
Dairy	2.5	64.9	75.1	42.5	42.5	Market Value	3713	3953	150	150	150	150	58					
Food crops		1.5	1.7	1.3	1.3	Government Expenditures	150	150	150	150	150	150	58					
Feed crops						Producer Support	150	150	150	150	150	150	58					
Oilseeds, prod.						Consumer Transfer	150	150	150	150	150	150	58					
Other crops		.1	3.3			Total TDS Estimate	58	58	58	58	58	58	58					
Animal Products	3.9	97.7	91.7	100.0	100.0													
Crops, oilseeds		2.3	8.3															
All products	4.0	100.0	100.0	100.0	100.0													



Supply Elasticity Matrix for --- W08956F															
1989															
SUPPLY ELASTICITIES															
Row	Sum	TB	SU	CT	CO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	.50														
PK	.75														
ML	.50														
PM	.80														
PE	.03														
DM	.45														
DC	.13														
DB	.33														
DM	.19														
DN	.19														
WH	.45														
CN	.21														
CG	.45														
RI	.21														
SB	.35														
SM	.37														
SO	.37														
OS	.01														
OM	.32														
CO	.32														
CT	.49														
SU	.48														
TB	.30														
Value (Million US\$) of Production Exports															
BF	1494														
PK	131														
ML	469														
PM	574														
PE	412														
DM	696														
DC	46														
DB	144														
DM	47														
CN	333														
CG	888														
RI	64														
SB	30														
SM	9														
SO	3														
OS	541														
OM	84														
CO	228														
CT	100														
SU	287														
TB	142														

Demand Elasticity Matrix for --- W08956F															
1989															
DEMAND ELASTICITIES															
Row	Sum	TB	SU	CT	CO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	-.54														
PK	-.60														
ML	-.50														
PM	-.56														
PE	-.40														
DM	-.17														
DC	.01														
DB	.01														
DM	.01														
CN	.04														
CG	.13														
RI	.30														
SB	.24														
SM	.10														
SO	.04														
OS	.05														
OM	.18														
CO	.20														
CT	.18														
SU	.01														
TB	.01														
Product definition and mnemonic:															
BF	Beef and veal														
PK	Pork														
ML	Mutton and Lamb														
PM	Poultry Meat														
PE	Poultry, Eggs														
DM	Dairy - fluid Milk														
DC	Dairy - Butter														
DP	Dairy - Cheese														
WH	Dairy - milk Powder														
CN	Wheat														
CG	Corn														
RI	other Coarse Grains														
SB	Rice														
SM	Soybeans														
SO	SoyMeal														
OS	SoyOil														
OM	Other oilSeeds														
CO	Other Meals														
CT	Other Oils														
SU	Cotton														
TB	Sugar (refined)														
	Tobacco														

Shares of Product Going to Intermediate Demand for --- W08956F															
1989															
DEMAND ELASTICITIES															
Row	Sum	TB	SU	CT	CO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	-.54														
PK	-.60														
ML	-.50														
PM	-.56														
PE	-.40														
DM	-.17														
DC	.01														
DB	.01														
DM	.01														
CN	.04														
CG	.13														
RI	.30														
SB	.24														
SM	.10														
SO	.04														
OS	.05														
OM	.18														
CO	.20														
CT	.18														
SU	.01														
TB	.01														
Date printed 2/3/1992															
Last update 1/1/1992															
Base year 1989															
Exchange rate (LC/US\$) 1															
Transmission elast. 5															
Income growth rate .0194															
Population growth rate .0217															
Income (Million US\$) 61870															
Population (1000) 35780															
Per Capita Income (\$) 1729															
Model spreadsheet --- W08956F															
Elasticities for --- W08956F															



Supply Elasticity Matrix for --> WD89BEE																						Value (Million US\$) of	
1989																						Production	Exports
SUPPLY ELASTICITIES																						Self Suffic. Ratio	
BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CG	RI	SB	SM	SO	OS	CH	OO	CT	SU	TB	Row Sum	BF	
BF	-.30	-.05			.10																5083	1.05	
PK		.45																			12455	1.07	
ML			.35																		592	1.31	
PM				.35																	1911	1.23	
PE					.30																3411	1.03	
DM						.18															9544	1.02	
D8							.20														1645	1.07	
DC								.13													1402	1.32	
DP									.10												712	1.05	
WH										.25											6907	1.05	
CG											.30										3300	1.04	
RI												.30									3255	.98	
SB													.45								65	.56	
SM														.30							226	.30	
SO															.10						265	.30	
OS																.30					92	.71	
CH																	.04				2063	1.15	
OO																		.13			348	.87	
CT																			.15		1212	1.14	
SU																				.20	7	.03	
TB																					28	.86	
																					1191	1.01	
																					896	1.01	

Demand Elasticity Matrix for --> WD89BEE																						DEMAND ELASTICITIES											1989		Product definition and immanic:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CG	RI	SB	SM	SO	OS	CH	OO	CT	SU	TB	Row	S-D	BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CG	RI	SB	SM	SO	OS	CH	OO	CT	SU	TB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Shares of Product Going to Intermediate Demand for --> WD89BEE														Date printed		
Supply-->														Last update		
DM	WH	CH	CG	SB	SM	SPE	SDM	SD8	SDC	SDP	SSM	SDM	SDO	Row	Final Dem. Share	Final Dem. Elas.
								.29	.23	.15				.67	.33	-.20
														.37	.63	-.20
														.85	.15	-.20
														.72	.28	-.20

EE	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Imports	World	Base Price Data	Consumer	Trade share C	Producer	Base Prod.	Values (M. US\$)	Projection parameters	Product definition and mnemonic:	Trade D. M US\$ VTDS
			Cons. DEMAND	P-C-E-I Exports	WDPRICE	MRPRICE	MPPRICE	TPRICE	PRSHARE	BPVALUE	Cons. BCVALUE	GAEMS SUPORW INELAS		
BF	1980	1884	96	281	2567	2567	2567	2567	.55	5083	8793	.39	BF	Beef & veal
PK	5724	5339	385	453	2176	2176	2176	2176	.50	12455	23235	.019	PK	Pork
ML	235	195	60	60	2321	2321	2321	2321	.50	592	905	.007	ML	Mutton & Lamb
PM	1839	1490	349	62	1039	1039	1039	1039	.55	1911	2815	.04	PM	Poultry Meat
PE	2011	1950	61	62	1696	1696	1696	1696	.60	3411	5512	.028	PE	Poultry, Eggs
DM	35088	35088			272	272	272	272	.50	9544	19087	.019	DM	Dairy - fluid Milk
D8	574	561	13	32	2866	2866	2866	2866	.80	1645	2010	.011	D8	Dairy - Butter
DC	466	435	31	46	3009	3009	3009	3009	.70	1402	1870	.011	DC	Dairy - Cheese
DP	306	232	74	85	2326	2326	2326	2326	.80	712	675	.011	DP	Dairy - Powder
WH	40868	39055	1813	3532	169	169	169	169	.70	6907	9429	.04	WH	Wheat
ON	29727	31782	-2055	320	111	111	111	111	.90	3300	3920	.016	ON	Onion
CG	31003	31624	-621	150	105	105	105	105	.90	3255	3689	.020	CG	Coarse Gr.
RI	202	485	-283	283	320	320	320	320	.50	65	310	.22	RI	Rice
SB	821	1477	-656	35	275	275	275	275	.95	226	428	.057	SB	Soybeans
SM	1073	3597	-2524	107	247	247	247	247	.80	265	1111	.057	SM	SoyMeal
SO	213	299	-86	7	431	431	431	431	.50	92	258	.037	SO	SoyOil
OS	4703	4090	613	784	630	630	630	630	.90	2963	2863	.019	OS	O. oilSeeds
OM	1840	2114	-274	109	200	200	200	200	.80	368	528	.019	OM	O. Meals
OO	1566	1372	194	304	774	774	774	774	.50	1212	2124	.019	OO	Other Oils
CT	17	559	-542	4	1674	1674	1674	1674	.50	28	1871	.51	CT	Cotton
SU	4225	4938	-713	554	282	282	282	282	.50	1191	2785	.009	SU	Sugar (rfind.)
TB	233	231	2	83	3844	3844	3844	3844	.50	896	1776	.009	TB	Tobacco
EE	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Imports	World	Base Price Data	Consumer	Trade share C	Producer	Base Prod.	Values (M. US\$)	Projection parameters	Product definition and mnemonic:	Trade D. M US\$ VTDS
			Cons. DEMAND	P-C-E-I Exports	WDPRICE	MRPRICE	MPPRICE	TPRICE	PRSHARE	BPVALUE	Cons. BCVALUE	GAEMS SUPORW INELAS		
BF	1980	1884	96	281	2567	2567	2567	2567	.55	5083	8793	.39	BF	Beef & veal
PK	5724	5339	385	453	2176	2176	2176	2176	.50	12455	23235	.019	PK	Pork
ML	235	195	60	60	2321	2321	2321	2321	.50	592	905	.007	ML	Mutton & Lamb
PM	1839	1490	349	62	1039	1039	1039	1039	.55	1911	2815	.04	PM	Poultry Meat
PE	2011	1950	61	62	1696	1696	1696	1696	.60	3411	5512	.028	PE	Poultry, Eggs
DM	35088	35088			272	272	272	272	.50	9544	19087	.019	DM	Dairy - fluid Milk
D8	574	561	13	32	2866	2866	2866	2866	.80	1645	2010	.011	D8	Dairy - Butter
DC	466	435	31	46	3009	3009	3009	3009	.70	1402	1870	.011	DC	Dairy - Cheese
DP	306	232	74	85	2326	2326	2326	2326	.80	712	675	.011	DP	Dairy - Powder
WH	40868	39055	1813	3532	169	169	169	169	.70	6907	9429	.04	WH	Wheat
ON	29727	31782	-2055	320	111	111	111	111	.90	3300	3920	.016	ON	Onion
CG	31003	31624	-621	150	105	105	105	105	.90	3255	3689	.020	CG	Coarse Gr.
RI	202	485	-283	283	320	320	320	320	.50	65	310	.22	RI	Rice
SB	821	1477	-656	35	275	275	275	275	.95	226	428	.057	SB	Soybeans
SM	1073	3597	-2524	107	247	247	247	247	.80	265	1111	.057	SM	SoyMeal
SO	213	299	-86	7	431	431	431	431	.50	92	258	.037	SO	SoyOil
OS	4703	4090	613	784	630	630	630	630	.90	2963	2863	.019	OS	O. oilSeeds
OM	1840	2114	-274	109	200	200	200	200	.80	368	528	.019	OM	O. Meals
OO	1566	1372	194	304	774	774	774	774	.50	1212	2124	.019	OO	Other Oils
CT	17	559	-542	4	1674	1674	1674	1674	.50	28	1871	.51	CT	Cotton
SU	4225	4938	-713	554	282	282	282	282	.50	1191	2785	.009	SU	Sugar (rfind.)
TB	233	231	2	83	3844	3844	3844	3844	.50	896	1776	.009	TB	Tobacco
EE	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Imports	World	Base Price Data	Consumer	Trade share C	Producer	Base Prod.	Values (M. US\$)	Projection parameters	Product definition and mnemonic:	Trade D. M US\$ VTDS
			Cons. DEMAND	P-C-E-I Exports	WDPRICE	MRPRICE	MPPRICE	TPRICE	PRSHARE	BPVALUE	Cons. BCVALUE	GAEMS SUPORW INELAS		
BF	1980	1884	96	281	2567	2567	2567	2567	.55	5083	8793	.39	BF	Beef & veal
PK	5724	5339	385	453	2176	2176	2176	2176	.50	12455	23235	.019	PK	Pork
ML	235	195	60	60	2321	2321	2321	2321	.50	592	905	.007	ML	Mutton & Lamb
PM	1839	1490	349	62	1039	1039	1039	1039	.55	1911	2815	.04	PM	Poultry Meat
PE	2011	1950	61	62	1696	1696	1696	1696	.60	3411	5512	.028	PE	Poultry, Eggs
DM	35088	35088			272	272	272	272	.50	9544	19087	.019	DM	Dairy - fluid Milk
D8	574	561	13	32	2866	2866	2866	2866	.80	1645	2010	.011	D8	Dairy - Butter
DC	466	435	31	46	3009	3009	3009	3009	.70	1402	1870	.011	DC	Dairy - Cheese
DP	306	232	74	85	2326	2326	2326	2326	.80	712	675	.011	DP	Dairy - Powder
WH	40868	39055	1813	3532	169	169	169	169	.70	6907	9429	.04	WH	Wheat
ON	29727	31782	-2055	320	111	111	111	111	.90	3300	3920	.016	ON	Onion
CG	31003	31624	-621	150	105	105	105	105	.90	3255	3689	.020	CG	Coarse Gr.
RI	202	485	-283	283	320	320	320	320	.50	65	310	.22	RI	Rice
SB	821	1477	-656	35	275	275	275	275	.95	226	428	.057	SB	Soybeans
SM	1073	3597	-2524	107	247	247	247	247	.80	265	1111	.057	SM	SoyMeal
SO	213	299	-86	7	431	431	431	431	.50	92	258	.037	SO	SoyOil
OS	4703	4090	613	784	630	630	630	630	.90	2963	2863	.019	OS	O. oilSeeds
OM	1840	2114	-274	109	200	200	200	200	.80	368	528	.019	OM	O. Meals
OO	1566	1372	194	304	774	774	774	774	.50	1212	2124	.019	OO	Other Oils
CT	17	559	-542	4	1674	1674	1674	1674	.50	28	1871	.51	CT	Cotton
SU	4225	4938	-713	554	282	282	282	282	.50	1191	2785	.009	SU	Sugar (rfind.)
TB	233	231	2	83	3844	3844	3844	3844	.50	896	1776	.009	TB	Tobacco
EE	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Imports	World	Base Price Data	Consumer	Trade share C	Producer	Base Prod.	Values (M. US\$)	Projection parameters	Product definition and mnemonic:	Trade D. M US\$ VTDS
			Cons. DEMAND	P-C-E-I Exports	WDPRICE	MRPRICE	MPPRICE	TPRICE	PRSHARE	BPVALUE	Cons. BCVALUE	GAEMS SUPORW INELAS		
BF	1980	1884	96	281	2567	2567	2567	2567	.55	5083	8793	.39	BF	Beef & veal
PK	5724	5339	385	453	2176	2176	2176	2176	.50	12455	23235	.019	PK	Pork
ML	235	195	60	60	2321	2321	2321	2321	.50	592	905	.007	ML	Mutton & Lamb
PM	1839	1490	349	62	1039	1039	1039	1039	.55	1911	2815	.04	PM	Poultry Meat
PE	2011	1950	61	62	1696	1696	1696	1696	.60	3411	5512	.028	PE	Poultry, Eggs
DM	35088	35088			272	272	272	272	.50	9544	19087	.019	DM	Dairy - fluid Milk
D8	574	561	13	32	2866	2866	2866	2866	.80	1645	2010	.011	D8	Dairy - Butter
DC	466	435	31	46	3009	3009	3009	3009	.70	1402	1870	.011	DC	Dairy - Cheese
DP	306	232	74	85	2326	2326	2326	2326	.80	712	675	.011	DP	Dairy - Powder
WH	40868	39055	1813	3532	169	169	169	169	.70	6907	9429	.04	WH	Wheat
ON	29727	31782	-2055	320	111	111	111	111	.90	3300	3920	.016	ON	Onion
CG	31003	31624	-621	150	105	105	105	105	.90	3255	3689	.020	CG	Coarse Gr.
RI	202	485	-283	283	320	320	320	320	.50	65	310	.22	RI	Rice
SB	821	1477	-656	35	275	275	275	275	.95	226	428	.057	SB	Soybeans
SM	1073	3597	-2524	107	247	247	247	247	.80	265	1111	.057	SM	SoyMeal
SO	213	299	-86	7	431	431	431	431	.50	92	258	.037	SO	SoyOil
OS	4703	4090	613	784	630	630	630	630	.90	2963	2863	.019	OS	O. oilSeeds
OM	1840	2114	-274	109	200	200	200	200	.80	368	528	.019	OM	O. Meals
OO	1566	1372	194	304	774	774	774	774	.50	1212	2124	.019	OO	Other Oils
CT	17	559	-542	4	1674	1674	1674	1674	.50	28	1871	.51	CT	Cotton
SU	4225	4938	-713	554	282	282	282	282	.50	1191	2785	.009	SU	Sugar (rfind.)
TB	233	231	2	83	3844	3844	3844	3844	.50	896	1776	.009	TB	Tobacco
EE	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Imports	World	Base Price Data	Consumer	Trade share C	Producer	Base Prod.	Values (M. US\$)	Projection parameters	Product definition and mnemonic:	Trade D. M US\$ VTDS
			Cons. DEMAND	P-C-E-I Exports	WDPRICE	MRPRICE	MPPRICE	TPRICE	PRSHARE	BPVALUE	Cons. BCVALUE	GAEMS SUPORW INELAS		
BF	1980	1884	96	281	2567	2567	2567	2567	.55	5083	8793	.39	BF	Beef & veal
PK	5724	5339	385	453	2176	2176	2176	2176	.50	12455				





[illegible]

Supply Elasticity Matrix for --> WD89bCH																										1989		SUPPLY ELASTICITIES										Self Suffic. Ratio		Value (Million US\$) of Production Exports					
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Product definition and mnemonic:
.21	-.04	-.01			.10					-.02	-.07	-.01		-.01			-.02					-.24	1.06	1.01	1.00	1.02	1.01	1.00																Beef and veal	
-.01	-.50	.25	.49							-.02	-.02	-.01					-.02					-.37	1.01	1.00	1.02	1.01	1.00																	Pork	
.18				.35						-.05	-.05	-.01					-.01					-.37	1.02	1.02	1.02	1.01	1.00																		Mutton and Lamb
					.30					-.02	-.02	-.01										-.45	1.00	1.00	1.00	1.00	1.00																	Poultry Meat	
					-.15	.15	-.07	.12		-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																	Poultry, Eggs	
					-.15	-.07	.32	-.05		-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																	Dairy - Fluid Milk	
					-.15	.15	-.07	.12		-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																	Dairy - Butter	
					-.15	.15	-.07	.12		-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																	Dairy - Cheese	
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Dairy - milk Powder
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Wheat
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Corn
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		other Coarse Grains
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Rice
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Soybeans
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		SoyMeal
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Other oilSeeds
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Other Meals
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Other Oils
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Cotton
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Sugar (refined)
										-.02	-.02	-.01										-.05	1.00	1.00	1.00	1.00	1.00																		Tobacco

Demand Elasticity Matrix for --> WD89bCH																	1989										DEMAND ELASTICITIES										Product definition and mnemonic:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Supply-->										Demand for --> WD89bCH										WD89bCH										Date printed										Last update										Base year										Exchange rate (LC/US\$)										Transmission elast.										Income growth rate										Population growth rate										Income (Million US\$)										Population (1000)										Per Capita Income (\$)										Model spreadsheet ---->										Elasticities for -->																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
DM	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	S-D Sum	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	S-D Sum	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	S-D Sum																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

Shares of Product Going to Intermediate Demand for --> WD89bCH																	1989		DEMAND ELASTICITIES										Row Sum	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	------	--	---------------------	--	--	--	--	--	--	--	--	--	---------	--



Supply Elasticity Matrix for --> WD89BWK																						Value (Million US\$) of	
1989																						Production	Exports
SUPPLY ELASTICITIES																						Self Suffic. Ratio	
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row	
BF	-.30	-.05			.05						-.01			-.06				-.02				-.28	
PK	-.14	.55							-.01	-.01	-.01											-.21	
ML			.44								-.01											-.42	
PM				.70					-.01	-.03	-.09			-.06				-.02				-.52	
PE					.35					-.02	-.02		-.01	-.10				-.03				-.33	
DM	.08				-.08	.15	-.04	.02														-.39	
DB					-.08	.15	-.04															-.05	
DC					-.08																	-.05	
DP									.55		-.12		.10									-.49	
WH									-.12	.55	-.10		-.10									-.42	
CN										-.28	-.05											-.42	
CG										-.24	.65											-.41	
RI									.16		-.16		.42									-.42	
SB												-.38	.30									-.05	
SM														.30								-.05	
SO									-.03	-.08			-.38	.30								-.05	
OS															.13							-.05	
OM																.50						-.05	
OO																-.46	.15	.36				-.05	
CT									-.04	-.03	-.02					-.46	.15	.36	.60			-.51	
SU									-.01	-.01										.20		-.18	
TB																					.10	-.10	
																						-.18	
																						1.18	

Demand Elasticity Matrix for --> WD89BWK																						
1989																						
DEMAND ELASTICITIES																						
	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB
Row	Sum	-.78	-.21	-.39	-.69	-.25	-.16	-.20	-.29	-.18	-.19	-.32	-.33	-.05	-.55	-.80	-.27	-.56	-.90	-.60	-.60	-.20
S-D	Sum	1.06	.41	.81	1.21	.58	.55	.25	.34	.23	.67	.75	.47	.20	.39	.44	.20	.82	1.11	.60	.78	.30
Product definition and mnemonic:																						
BF	Beef and veal																					
PK	Pork																					
ML	Mutton and Lamb																					
PM	Poultry Meat																					
PE	Poultry, Eggs																					
DM	Dairy - fluid Milk																					
DB	Dairy - Butter																					
DC	Dairy - Cheese																					
DP	Dairy - milk Powder																					
WH	Wheat																					
CN	Corn																					
CG	other Coarse Grains																					
RI	Rice																					
SB	Soybeans																					
SM	SoyMeal																					
SO	SoyOil																					
OS	Other oil/Seeds																					
OM	Other Meals																					
OO	Other Oils																					
CT	Cotton																					
SU	Sugar (refined)																					
TB	Tobacco																					

Shares of Product Going to Intermediate Demand for --> WD89BWK														Value (Million US\$) of		
Supply-->														Production	Exports	
DM	WH	CN	CG	SB	SM	SO	OS	OM	SSM	SSO	SSD	SSM	SSD			







[illegible]



[illegible]

Demand Elasticity Matrix for --> W08958Z																				1989												DEMAND ELASTICITIES												Product definition and mnemonic:	
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	S-D Sum																						
BF	-0.70	-0.17																				-.43	-.89																						
PK	-0.40	-0.95																				-.45	-.76																						
ML			-0.60																			-.60	-.94																						
PM				-0.85																		-.59	-.71																						
PE					-0.50																	-.50	-.87																						
DM						-0.18																-.15	-.55																						
DB							-0.80															-.25	-.30																						
DC								-0.04														-.64	-.69																						
DP									-0.73													-.55	-.60																						
WH										-0.18												-.10	-.49																						
CN											-0.50											-.33	-.62																						
CG												-0.24										-.12	-.24																						
RI													-0.45									-.10	-.32																						
SB														-0.40								-.05	-.46																						
SM															-0.57							-.17	-.22																						
SO																-0.85						-.79	-.84																						
OS																	-0.23					-.06	-.36																						
OM																		-0.07				-.16	-.21																						
OO																			-0.57			-.63	-.68																						
CT																				-0.90		-.60	-.93																						
SU																						1.06	1.06																						
TB																						-.60	-.30																						

Shares of Product Going to Intermediate Demand for --> W089b8Z															Date printed		
Supply-->															Last update		
DM	SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSD	SOM	SOO	Row Sum	Final Dem. Share	Final Dem. Elas.	
							.08	.28	.06					.43	.57	-.20	DM
WH	.19			.23	.08	.19								.88	1.00	-.20	WH
CG	.12	.14		.16	.06	.11								.59	.12	-.20	CG
OS														.99	.41	-.20	OS
SB	.13	.29		.35	.11	.11				.81	.19			1.00			SB
SM														.99	.01	-.20	SM
CS													.23	.82	.18	-.23	CS
CM	.12	.27		.37	.12	.11								.99	.01	-.20	CM

Feed Ratios (Total feed/animal prod.)															Date printed		
Base year ----->															Last update		
SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSD	SOM	SOO	Row Sum	Final Dem. Share	Final Dem. Elas.		
1.13	5.76	.60	3.10	3.08										.36			Base year ----->
1.13	5.76	.60	3.10	3.08										.36			Exchange rate (LC/US\$)
1.13	5.76	.60	3.10	3.08										.36			Transmission elast.
1.13	5.76	.60	3.10	3.08										.36			Income growth rate
1.13	5.76	.60	3.10	3.08										.36			Population growth rate
1.13	5.76	.60	3.10	3.08										.36			Income (Million US\$)
1.13	5.76	.60	3.10	3.08										.36			Population (1000)
1.13	5.76	.60	3.10	3.08										.36			Per Capita Income (\$)
1.13	5.76	.60	3.10	3.08										.36			Model spreadsheet ---->

Elasticities for --> W089b8Z																	
12.5	15.8	13.8	15.9	15.4	12.0									2.73	<-		
Av. meal/grain price ratio =	2.73	<-												14.4	<-		
Av. feed protein percent =	14.4	<-															

[illegible]

Supply Elasticity Matrix for --> WD89BAR																							SUPPLY ELASTICITIES										Self Suffic. Ratio		Value (Million US\$) of Production Exports	
	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SF	SO	OS	OM	OO	CT	SU	TB	RW	Sum	Ratio	Production	Exports										
BF	.50					-.03																.47	1.16	6674	924											
PK		.70																				.63	1.00	479	16											
ML			.42																			.42	1.08	223												
PM				.45	-.01																	.39	1.00	327												
PE				-.01	.45																	.41	1.00	344												
DM	-.11					.55																.42	1.00	1829												
DB						-.24	.41	.45	.33													.05	1.15	129												
DC						-.24	-.07	.42	-.06													.05	1.06	782	17											
DP						-.24	.41	.45	.33													.05	2.65	105	42											
WH										.69												.13	2.48	799	820											
CN										-.33												.02	2.17	239	261											
CG										-.44												.02	1.90	91	108											
RI										-.06												.61	1.48	69	22											
SF										.03												.45	26.00	1268	785											
SM													.70	.15	.06							.05	7.67	1284	1235											
SO													.16	.15	.06							.05	496	431												
OS													.10	.10	.06	.70						.05	1.11	3208	311											
OM													.37	.37	.05	.37	.10					.05	20.37	405	384											
OO																.32	.32					.05	6.83	1295	1110											
CT																		.50				.45	1.70	464	208											
SU																			.50			.45	1.28	362	208											
TB																				.30		.40	1.28	261	123											
RW																						.30	1.28	261	123											

Demand Elasticity Matrix for --> W88\$BAR																							1989	DEMAND ELASTICITIES										ROW	S-D	Product definition and mnemonic:
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	SUM	S-D	BF												
-.59		.01	.02																		-.49	1.03	Beef and veal													
.25	-.69	-.80	.20																		-.55	1.12	Pork													
.35	.32			-.50																	-.57	.97	Mutton and Lamb													
					-.15	.01	.05	.01													-.50	.91	Poultry Meat													
					-.80	-.66	-.66								.25			.25			-.30	.51	Poultry, Eggs													
																					-.66	.71	Dairy - fluid Milk													
							-.66	-.85													-.85	.90	Dairy - Butter													
									-.20			.01									-.19	.64	Dairy - Cheese													
										-.48	.12		.14				.04	.04			-.18	.31	Dairy - milk Powder													
									.05	-.28	-.46	-.40	.09								-.05	.07	Wheat													
													-.36								-.35	.06	Corn													
										.28	.08		.23		.09		.04				-.05	.50	other Coarse Grains													
												-.34									-.15	.20	Rice													
													-.09				.30	.30			-.42	.47	Soybeans													
						.27									-.09	-.25	.05	.15			-.05	.63	SoyMeal													
													.10				.05	.15			-.21	.63	SoyOil													
						.09				.20	.09				.10		-.54	-.99			-.16	.65	Other oilSeeds													
																			-.20		-.80	.50	Other Meals													
																			-.20		-.80	.50	Other Oils													
																			-.20		-.52	.65	Cotton													
																			-.20		-.52	.65	Sugar (refined)													
																			-.20		-.52	.65	Tobacco													

Shares of Product Going to Intermediate Demand for --> M089BAR													Date printed			
Supply-->													Last update			
DM	SF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSD	SOM	SCO	Row Sum	Final Dem. Share	Final Elast.
							.09	.53	.09					.72	.28	-.20
WH															1.00	-.20
ON	.25	.14		.10	.06	.28								.83	.17	-.20
CG	.21	.14		.10	.07	.24								.76	.24	-.20
SB															.02	-.36
SM	.20	.26		.20	.12	.21				.80	.18			.98	.01	-.20
CS																
OM	.20	.25		.21	.12	.21						.55	.45	1.00	-.25	-.05
														.99	.01	-.20





Supply Elasticity Matrix for --> MD89bVE																						
SUPPLY ELASTICITIES																						
1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989								
BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM								
BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM								
PK	ML	PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	SM								
ML	PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	SM	SM								
PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	SM	SM	SM								
PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	SM	SM	SM	SM								
DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	SM	SM	SM	SM	SM								
D8	DC	DP	WH	CN	CG	RI	SB	SM	SM	SM	SM	SM	SM	SM								
DC	DP	WH	CN	CG	RI	SB	SM	SM	SM	SM	SM	SM	SM	SM								
DP	WH	CN	CG	RI	SB	SM	SM	SM	SM	SM	SM	SM	SM	SM								
WH	CN	CG	RI	SB	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM								
CN	CG	RI	SB	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM								
CG	RI	SB	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM								
RI	SB	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM								
SB	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM								
SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM								
OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS	OS								
CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO								
CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT								
SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU								
TB	TB	TB	TB	TB	TB	TB	TB	TB	TB	TB	TB	TB	TB	TB								
Value (Million US\$) of Production	865	287	12	263	267	459	6	283	5	111	62	65	2	13	5	138	20	59	52	145	46	
Self Suffic. Ratio	BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	OS	CO	CT	SU	TB		
Product definition and mnemonic:	Beef and veal	Pork	Mutton and Lamb	Poultry Meat	Poultry, Eggs	Dairy - fluid Milk	Dairy - Butter	Dairy - Cheese	Dairy - milk Powder	Wheat	Corn	other Coarse Grains	Rice	Soybeans	SoyMeal	SoyOil	Other oilseeds	Other Meals	Other Oils	Cotton	Sugar (refined)	Tobacco
S-D	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
Row	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
TB	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
SU	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
CT	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
CO	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
OM	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
OS	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
SO	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
SM	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
SB	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
RI	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
CG	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
CN	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
WH	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
DP	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
DC	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
D8	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
DM	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
PE	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
PM	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
ML	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
PK	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
BF	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
Value (Million US\$) of Exports	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

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Shares of Product Going to Intermediate Demand for --> W089JLA													Date printed Last update		
Supply-->													Base year ----->	2/ 7/1992	
DM	SF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SDO	Row Sum	Final Dem. Share	Final Dem. Elas.	
						.12	.46	.02				.59	.41	-.30	DM
WM	.01											.02	.98	-.30	WM
CM	.14	.07	.01	.05	.06	.01						.47	.53	-.30	CM
CG	.17	.10	.01	.08	.09	.17						.62	.38	-.30	CG
SS										.77	.18	.95	.05	-.36	SS
SM	.20	.24	.01	.19	.18	.18						1.00	-.30	SM	
OS										.73	.27	1.00	-.40	OS	
OM	.19	.23	.01	.20	.19	.18						1.00	-.30	OM	
Feed Ratios (Total feed/animal prod.)															
SF SPK SML SPM SPE															4 WM
1.01 3.57 .60 2.01 2.15															55 OM
.feed mix percent by animal product.															27 CG
SF SPK SML SPM SPE															8 SM
4															6 OM
..Estimated protein percentage..															
SF SPK SML SPM SPE															14.9 19.7 15.1 20.4 19.0
Av. meal/grain price ratio =															14.5
Av. feed protein percent =															2.28
															16.9
															<-
															<-
Elasticities for -->															W089JLA
															W089JLA

LA	1989	Prod. SUPPLY	Prod. Cons. DEMAND	Quantity Data (1000 MT)	Imports	Exports	Trade share C. TORP	Producer share C. PSHARE	Base Values (M. US\$)	Prod. Cons. BOVALUE	G. Exp. Cons. BOVALUE	Projection parameters	Product definition and immanic	Trade D. M US\$ VIDS
1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989
BF	1229	1047	182	186	4	2567	2567	55	3155	4887	.013	.54	BF	Beef & veal
PK	213	213				2176	2176	.50	463	927	.019	.54	PK	Pork
ML	101	101				2321	2321	.50	234	469	.004	.51	ML	Mutton & Lamb
PM	291	292	-1		1	1039	1039	.55	302	552	.039	.48	PM	Poultry Meat
PE	299	300				1696	1696	.40	508	847	.023	.65	PE	Poultry, Eggs
DM	5532	5532				2866	2866	.50	1905	3009	.008	.57	DM	Dairy - Fluid Milk
D8	25	25				3009	3009	.80	72	90	.008	.61	D8	Dairy - Butter
DC	98	98				2326	2326	.80	295	421	.008	.74	DC	Dairy - Cheese
DP	4	20	-16		16	169	169	.70	9	58	.008	.55	DP	Dairy - Powder
WH	2995	2995				2326	2326	.70	489	1215	.008	.35	WH	Wheat
CN	4736	4736				111	111	.90	492	595	.013	.08	CN	Coarse Gr.
CG	1707	1707				105	105	.90	179	228	.001	.09	CG	Rice
RI	2859	2796				320	320	.50	915	1789	.026	.41	RI	Soybeans
SB	2171	849				275	275	.95	597	246	.037	.10	SB	SoyMeal
SM	583	543				247	247	.80	144	168	.037	.74	SM	SoyMeal
SO	137	301				431	431	.50	59	259	.037	.74	SO	SoyMeal
OS	965	950				630	630	.90	608	665	.019	.10	OS	OilSeeds
OM	2695	416				200	200	.80	539	104	.019	.10	OM	Other Oils
OO	974	820				774	774	.50	754	1269	.019	.74	OO	Other Oils
CT	432	207				1674	1674	.50	723	693	.015	.77	CT	Cotton
SU	3355	3065				282	282	.50	946	1729	.016	.40	SU	Sugar (rfind.)
TB	45	37				3844	3844	.50	173	284	.008	.74	TB	Tobacco

LA	1989	Prod. Cons. DEMAND	Quantity Data (1000 MT)	Imports	Exports	Trade share C. TORP	Producer share C. PSHARE	Base Values (M. US\$)	Prod. Cons. BOVALUE	G. Exp. Cons. BOVALUE	Projection parameters	Product definition and immanic	Trade D. M US\$ VIDS	
1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	
BF	1229	1047	182	186	4	2567	2567	55	3155	4887	.013	.54	BF	Beef & veal
PK	213	213				2176	2176	.50	463	927	.019	.54	PK	Pork
ML	101	101				2321	2321	.50	234	469	.004	.51	ML	Mutton & Lamb
PM	291	292	-1		1	1039	1039	.55	302	552	.039	.48	PM	Poultry Meat
PE	299	300				1696	1696	.40	508	847	.023	.65	PE	Poultry, Eggs
DM	5532	5532				2866	2866	.50	1905	3009	.008	.57	DM	Dairy - Fluid Milk
D8	25	25				3009	3009	.80	72	90	.008	.61	D8	Dairy - Butter
DC	98	98				2326	2326	.80	295	421	.008	.74	DC	Dairy - Cheese
DP	4	20	-16		16	169	169	.70	9	58	.008	.55	DP	Dairy - Powder
WH	2995	2995				2326	2326	.70	489	1215	.008	.35	WH	Wheat
CN	4736	4736				111	111	.90	492	595	.013	.08	CN	Coarse Gr.
CG	1707	1707				105	105	.90	179	228	.001	.09	CG	Rice
RI	2859	2796				320	320	.50	915	1789	.026	.41	RI	Soybeans
SB	2171	849				275	275	.95	597	246	.037	.10	SB	SoyMeal
SM	583	543				247	247	.80	144	168	.037	.74	SM	SoyMeal
SO	137	301				431	431	.50	59	259	.037	.74	SO	SoyMeal
OS	965	950				630	630	.90	608	665	.019	.10	OS	OilSeeds
OM	2695	416				200	200	.80	539	104	.019	.10	OM	Other Oils
OO	974	820				774	774	.50	754	1269	.019	.74	OO	Other Oils
CT	432	207				1674	1674	.50	723	693	.015	.77	CT	Cotton
SU	3355	3065				282	282	.50	946	1729	.016	.40	SU	Sugar (rfind.)
TB	45	37				3844	3844	.50	173	284	.008	.74	TB	Tobacco

LA	1989	Prod. Cons. DEMAND	Quantity Data (1000 MT)	Imports	Exports	Trade share C. TORP	Producer share C. PSHARE	Base Values (M. US\$)	Prod. Cons. BOVALUE	G. Exp. Cons. BOVALUE	Projection parameters	Product definition and immanic	Trade D. M US\$ VIDS	
1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	
BF	1229	1047	182	186	4	2567	2567	55	3155	4887	.013	.54	BF	Beef & veal
PK	213	213				2176	2176	.50	463	927	.019	.54	PK	Pork
ML	101	101				2321	2321	.50	234	469	.004	.51	ML	Mutton & Lamb
PM	291	292	-1		1	1039	1039	.55	302	552	.039	.48	PM	Poultry Meat
PE	299	300				1696	1696	.40	508	847	.023	.65	PE	Poultry, Eggs
DM	5532	5532				2866	2866	.50	1905	3009	.008	.57	DM	Dairy - Fluid Milk
D8	25	25				3009	3009	.80	72	90	.008	.61	D8	Dairy - Butter
DC	98	98				2326	2326	.80	295	421	.008	.74	DC	Dairy - Cheese
DP	4	20	-16		16	169	169	.70	9	58	.008	.55	DP	Dairy - Powder
WH	2995	2995				2326	2326	.70	489	1215	.008	.35	WH	Wheat
CN	4736	4736				111	111	.90	492	595	.013	.08	CN	Coarse Gr.
CG	1707	1707				105	105	.90	179	228	.001	.09	CG	Rice
RI	2859	2796				320	320	.50	915	1789	.026	.41	RI	Soybeans
SB	2171	849				275	275	.95	597	246	.037	.10	SB	SoyMeal
SM	583	543				247	247	.80	144	168	.037	.74	SM	SoyMeal
SO	137	301				431	431	.50	59	259	.037	.74	SO	SoyMeal
OS	965	950				630	630	.90	608	665	.019	.10	OS	OilSeeds
OM	2695	416				200	200	.80	539	104	.019	.10	OM	Other Oils
OO	974	820				774	774	.50	754	1269	.019	.74	OO	Other Oils
CT	432	207				1674	1674	.50	723	693	.015	.77	CT	Cotton
SU	3355	3065				282	282	.50	946	1729	.016	.40	SU	Sugar (rfind.)
TB	45	37				3844	3844	.50	173	284	.008	.74	TB	Tobacco

Summary of support (%):	Support Measures PSE	Value share of- Prod.-Cons.	-----Share of----- Prod. Agric. Consumer Support Budget Transfer	Summary of base information:	Million US \$	Base model spreadsheet -->	
						W089dLA	W09sLA
Meat & eggs		35.4		Production Value	13163		
Dairy		14.3	37.5	Market Value	13163	Exchange rates in:	1
Food crops		10.7	17.5	Consumption Value	20505	Model spreadsheet	1
Feed crops		5.1	14.7	Government Expenditures		Support spreadsheet	
Oilseeds, prod.		20.5	4.0	Producer Support		Currency unit per US\$	US \$
Other crops		14.0	13.2	Consumer Transfer		Base year ----->	1999
				Total TDS Estimate	0		
Animal Products		49.7	54.9				
Crops, oilseeds		50.3	45.1				
ALL products		100.0	100.0	Last update Date printed	2/ 6/92 2/ 7/92	Base data ----->	W089dLA

Summary of support (%):	Support Measures PSE	Measures CSE	Value share of -Prod., -Cons.	-----Share of----- Source- Produc. Agric. Consumer Support Budget Transfer	Summary of base information:	Million US \$	Base model spreadsheet -->	Support spreadsheet ----->	W089dLA W089sLA
Meat & eggs			35.4	37.5	Production Value	13163			
	Dairy		14.3	17.5	Market Value	13163	Exchange rates in:	Model spreadsheet	1
	Food crops		10.7	14.7	Consumption Value	20505	Support spreadsheet	Support spreadsheet	1
	Feed crops		5.1	4.0	Government Expenditures		Currency unit per US\$	US \$	1989
	Oilseeds, prod.		20.5	13.2	Producer Support		Base year ----->		
Other crops		14.0	13.2	Consumer Transfer					
					Total TDS Estimate	0			
Animal Products		49.7	54.9						
Crops, oilseeds		50.3	45.1						
All products		100.0	100.0		Last update	2/ 6/92	Base data ----->		W089dLA
					Date printed	2/ 7/92			







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Demand Elasticity Matrix for --> W089EEG													DEMAND ELASTICITIES													Product definition and mnemonic:	
1989																											
BF	ML	PM	PE	DM	DB	DC	WH	CN	CG	RI	S8	SM	SO	OS	OM	OO	CT	SU	TB	ROW Sum	S-D Sum	BF					
- .40																				-.36	.54		Beef and veal				
.14	.24																			-.26	.57	ML	Mutton and Lamb				
	-.60	.20																		-.10	.28	PM	Poultry, Meat				
	.35	-.70	-.50																	-.50	.58	PE	Poultry, Eggs				
				-.31		.24														-.07	.23	DM	Dairy - fluid Milk				
				-.30	-.30															-.30	.35	DB	Dairy - Butter				
					-.30	-.30														-.30	.35	DC	Dairy - Cheese				
WH							-.31			.02										-.29	.56	WH	Wheat				
CN							-.33	.01			.02				.02					-.28	.47	CN	Corn				
CG							.17	-.43			.01				.01					-.23	.38	CG	other Coarse Grains				
RI							.07		-.30											-.23	.41	RI	Rice				
S8										-.38			.09							-.05	.19	S8	Soybeans				
SM								.26	.01		-.38				.01					-.11	.16	SM	SoyMeal				
SO												-.25				.05				-.20	.20	SO	SoyOil				
OS													-.19		.07	.06				-.05	.25	OS	Other oilSeeds				
OM											.01				-.40					-.09	.14	OM	Other Meals				
OO														-.20		-.20				-.20	.25	OO	Other Oils				
CT																	-.40			-.40	.55	CT	Cotton				
SU																		-.10			-.10	.23	SU	Sugar (refined)			
TB																			-.10			-.10	.20	TB	Tobacco		

Shares of Product Going to Intermediate Demand for --> MD89NEG										Date printed Last update	
Supply-->	SBF	SML	SPM	SPE	SDM	SOB	SDC	SSD	SSM	Row Sum	Final Dem. Share Elab.
DM							.70			.70	.30
WH	.01									.05	.95
CN	.23	.01		.01	.02					.30	.70
CG	.20	.01	.10	.10	.23					.64	.36
SB										1.00	
SM	.09		.08	.12	.10			.18	.82	.39	.61
OS										.96	.04
CM	.10		.10	.13	.10			.78	.18	.43	.57





Supply Elasticity Matrix for --> W089dHP															
1989															
SUPPLY ELASTICITIES															
	BF	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO
BF	.21				.05					-.02	-.04				
ML		.50							-.01	-.05	-.06		-.01		
PM			.90						-.05	-.17	-.06		-.15		
PE				.50					-.04	-.12	-.03		-.08		
DM	.06				.40				-.09	-.09			-.02		
DB					-.12	.20									
DC					-.18	-.01									
DP					-.12	.20									
WH								.30							
CN									-.50	-.20					
CG									-.01						
RI											.15				
SB									-.37						
SM									-.37						
SO														.12	
OS														.12	
OM															.38
OO															.10
CT															.45
SU															.10
TB															.10

Demand Elasticity Matrix for --> W089dHP															
1989															
DEMAND ELASTICITIES															
	BF	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO
BF	-.28														
ML		-.60							.08						
PM			.30												
PE				.30											
DM					.02										
DB						.01									
DC							.30								
DP								.30							
WH									.31						
CN										.05					
CG											.01				
RI												.20			
SB													.36		
SM														.22	
SO															.09
OS															-.08
OM															.05
OO															.01
CT															
SU															
TB															

Shares of Product Going to Intermediate Demand for --> W089dHP															
1989															
Shares of Product Going to Intermediate Demand for --> W089dHP															
Supply-->	SBF	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SS0	SOM	S00	Row Sum	Final Dem. Share	Final Dem. Elas.
DM						.07	.14						.21	.79	-.30
WH													.02	.98	-.30
CN													.72	.29	-.30
CG													.16	.84	-.30
SB													.96	.04	-.36
SM									.78	.18			.51	.49	-.30
OS													.86	.14	-.25
OM											.43	.43	.70	.30	-.30

Date printed		2/ 7/1992
Last update		2/ 6/1992
Base year		1989
Exchange rate (LC/US\$)		1
Transmission elast.		5
Income growth rate		.0248
Population growth rate		.0321
Income (Million US\$)		533845
Population (1000)		14,1969
Per Capita Income (\$)		4112
Model spreadsheet		W089dHP

Feed Ratios (Total feed/animal prod.)		Row Sum	Final Dem. Share	Final Dem. Elas.
SBF	SML	SPE	SDM	SD8
6.40	4.00	5.96	1.09	1.09
Feed mix percent by animal product.		Row Sum	Final Dem. Share	Final Dem. Elas.
SBF	SML	SPE	SDM	SD8
32	31	49	57	45
63	61	19	13	50
3	4	18	15	5
1	1	6	5	1
Estimated protein percentage...		Row Sum	Final Dem. Share	Final Dem. Elas.
SBF	SML	SPE	SDM	SD8
12.3	12.5	17.8	16.3	12.4
Av. meal/grain price ratio =		2.26	15.5	15.5

Elasticities for -->		W089dHP
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Supply Elasticity Matrix for --> W089bW0																							1989		SUPPLY ELASTICITIES												Value (Million US\$) of Production Exports									
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	Self Suffic. Ratio	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Product definition and nomenclature:
.21	.30																					.18	.90																						Beef and veal	
		.50																				.20	1.00																						Pork	
			.50																			.47	1.05																					Mutton and Lamb		
				.40																		.17	1.05																					Poultry Meat		
					.80																	.16	1.18																					Dairy - fluid Milk		
					.13																	.40	1.00																					Dairy - Butter		
					.13																	.05	1.07																					Dairy - Cheese		
					.13																	.05	1.00																					Dairy - milk Powder		
																						.22	1.00																					Wheat		
																						.30	1.00																					Corn		
																						.27	1.00																					other Coarse Grains		
																						.30	1.00																					Rice		
																						.30	1.00																					Soybeans		
																						.27	1.00																					SoyMeal		
																						.27	1.00																					SoyOil		
																						.26	1.00																					Other oilSeeds		
																						.12	1.00																					Other Meals		
																						.30	1.00																					Other Oils		
																						.10	1.00																					Cotton		
																						.10	1.00																					Sugar (refined)		
																						.10	1.00																					Tobacco		
																						.10	1.71																							

Demand Elasticity Matrix for --> W089bW0																							1989		DEMAND ELASTICITIES												Value (Million US\$) of Production Exports									
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	Self Suffic. Ratio	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Product definition and nomenclature:
.28	.20																					.42	1.00																						Beef and veal	
	.20																					.33	1.00																						Pork	
		.50																				.20	1.00																						Mutton and Lamb	
			.50																			.46	1.00																					Poultry Meat		
				.40																		.55	1.00																					Dairy - fluid Milk		
					.80																	.25	1.00																					Dairy - Butter		
					.13																	.20	1.00																					Dairy - Cheese		
					.13																																									

MO	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----		---Projection parameters G. Exp. & Price Trans. Elast. PTELAS				Product definition and immanetic:	Trade D. M US\$ VTDS		
	Prod. SUPPLY	Cons. DEMAND	P-C-E-I TRADE	Imports EXPORTS	World PRICE	Market PRICE	Consumer PRICE	Trade share C. PRSHARE	Prod. BVALUE	Cons. BVALUE	GAIN\$	SUPROW	INCLAS	Import MBSE			Export ESSE	Prod. PRESE
1989																		
BF	329	345	-36	8	44	2567	2567	4667	2567	55	845	1704	.013	.50	.50	BF	Beef & veal	
PK	9	9				2176	2176	4352	2176	.50	20	39	.027	.48	.50	PK	Pork	
ML	378	361	17	17		2321	2321	4642	2321	.50	877	1676	.008	.56	.50	ML	Mutton & Lamb	
PM	432	412	20	20		1039	1039	1899	1039	.55	449	778	.030	.65	.70	PM	Poultry Meat	
PE	551	469	82	82		1696	1696	2827	1696	.60	934	1324	.025	.68	.70	PE	Poultry, Eggs	
DM	916	916				272	272	544	272	.50	249	494	.013	.48	.20	DM	Dairy - fluid Milk	
D8	2	2				2866	2866	3582	2866	.80	6	7	.013	.54	.20	D8	Dairy - Butter	
DC	16	15	1	1		3009	3009	4299	3009	.70	48	64	.013	.73	.20	DC	Dairy - Cheese	
DP	2	2				2326	2326	2907	2326	.80	5	6	.013	.52	.20	DP	Dairy - Powder	
WH	16738	22936	-6198	225	6423	169	169	241	169	.70	2829	5537	.020	.25	.20	WH	Wheat	
ON	2306	3882	-1576	13	1589	111	111	123	111	.90	256	479	.014	.06	.90	ON	Onion	
CG	8854	10741	-1887	9	1896	105	105	117	105	.90	930	1253	.013	.04	.90	CG	O. Coarse Gr.	
RI	153	604	-451	397	451	320	320	640	320	.50	49	387	.011	.32	.20	RI	Rice	
S8	120	517	-397	24	397	275	275	289	275	.95	33	150	.019	.20	.20	S8	Soybeans	
SM	380	649	-269	26	293	247	247	309	247	.80	94	330	.019	.20	.50	SM	SoyMeal	
SO	85	387	-302	9	311	431	431	862	431	.50	37	334	.019	.64	.50	SO	SoyOil	
OS	2472	2507	-35	12	47	630	630	700	630	.90	1557	1755	.019	.20	.50	OS	O. oilSeeds	
OM	1012	1167	-155	11	166	200	200	250	200	.80	202	292	.019	.20	.50	OM	O. Meals	
OO	907	1295	-388	236	624	774	774	1548	774	.50	702	2005	.019	.65	.50	OO	Other Oils	
CT	672	695	-23	91	114	1674	1674	3348	1674	.50	1125	2327	.028	.58	.50	CT	Cotton	
SU	1943	2702	-759	1	760	282	282	564	282	.50	548	1524	.023	.35	.20	SU	Sugar (rfind.)	
TB	238	139	99	120	21	3844	3844	7688	3844	.50	915	1069	.009	.55	.50	TB	Tobacco	
MO																		
1989																		



Supply Elasticity Matrix for --> WD89dND																					SUPPLY ELASTICITIES											Self Suffic. Ratio		Value (Million US\$) of Production Exports	
1989																																			
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	ON	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum													
.20																-.01						19	BF	1.10	1720	162									
.30	.35																					30	PK	1.00	4										
		.40																				34	ML	1.01	1277	19									
			.40											-.01		.17						20	PM	1.00	300										
				.40												-.10						27	PE	1.00	2199										
					.30											-.02						26	DM	1.00	6528										
						.17																05	DB	1.00	2522										
							.01															05	DC	1.00	36										
								.03														05	DP	1.00	209										
									.45													27	WH	1.00	7630	4									
										.03												18	ON	1.00	1271										
											.10											24	CG	1.00	4625										
												.05										31	RI	1.01	15278	103									
													.40									25	SB	1.00	539										
														.20								05	SM	4.63	168	208									
															.30							05	SO	1.00	252										
																.35						05	OS	1.00	7424	16									
																	.05					05	OM	1.19	1393	205									
																		.27				05	OO	1.00	7358										
																			.68			26	CT	1.11	2453	364									
																				.50		19	SU	1.00	2862	8									
																					.19	19	TB	1.14	1707	215									

Demand Elasticity Matrix for --> WD89dND																							DEMAND ELASTICITIES																1989	Product definition and mnemonic:
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	ON	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row	S-D																	
BF	-.20				-.40	-.10	.01	.04	-.40	-.05	-.10	-.40										Sum	Sum	BF																
PK		-.20			-.40	-.10		.10	-.40	-.05	-.10	-.40										Sum	Sum	PK																
ML			-.30		-.40	-.10		.05	-.20	-.05	-.10	-.40										Sum	Sum	ML																
PM				1.00	-.40	-.10		.05	-.10	-.05	-.10	-.40										Sum	Sum	PM																
PE					-.26	-.02		.02	-.10	-.05	-.10	-.40										Sum	Sum	PE																
DM						-.60			-.05	-.05	-.10	-.40										Sum	Sum	DM																
DB							-.40		-.05	-.05	-.10	-.40										Sum	Sum	DB																
DC								-.50	-.05	-.05	-.10	-.40										Sum	Sum	DC																
DP									-.30	-.30	-.40	-.40										Sum	Sum	DP																
WH										-.01	-.01	-.40										Sum	Sum	WH																
ON											-.01	-.40										Sum	Sum	ON																
CG												-.50										Sum	Sum	CG																
RI													-.39									Sum	Sum	RI																
SB														-.34								Sum	Sum	SB																
SM															-.60							Sum	Sum	SM																
SO																-.34						Sum	Sum	SO																
OS																	-.04					Sum	Sum	OS																
OM																	-.34					Sum	Sum	OM																
OO																		-.50				Sum	Sum	OO																
CT																			-.65			Sum	Sum	CT																
SU																				-.60		Sum	Sum	SU																
TB																					-.80	Sum	Sum	TB																

Shares of Product Going to Intermediate Demand for --> U089ND										Date printed Last update Base year -----> Exchange rate (LC/US\$) Transmission elast. Income growth rate Population growth rate Income (Million US\$) Population (1000) Per Capita Income (\$) Model spreadsheet ---->									
Supply-->																			
	SF	SPK	SML	SDP	SDC	SDB	SDM	SPE	SPK	SF	SPK	SML	SPE	SDF					
DM	.03									.28	.16	2.29	2.45	.15					
WH										.feed mix percent by animal product.									
CH										SF	SPK	SML	SPE	SDM					
CG										11	14	9	16	CH					
OG										29	3	4	3	SM					
SB										4	57	82	72	CM					
SM										%	--Estimated protein percentage--								
OS										SF	SPK	SML	SPE	SDM					
CM										40.2	28.4	35.7	32.9	29.4					
										Av. meal/grain price ratio =				<-					
										Av. feed protein percent =				<-					



[illegible]

OS	-----Base Quantity Data (1000 MT)-----					-----Base Price Data (US\$/MT)-----					-----Base Values (M. US\$)-----					---Projection parameters					Trade D.	
1989	Prod.	Cons.	P-C-E-I	Exports	Imports	World	Market	Consumer	US\$/MT	Trade share C.	Prod.	Cons.	G. Exp.	& Price	Trans.	Elast.	Product	definition	and	immanic:		
	SUPPLY	DEMAND	NTRADE	EXPORTS	IMPORTS	WDPRICE	MKPRICE	MRPRICE	CNPRICE	TDPRICE	PRSHARE	BPVALUE	BCVALUE	GAEMS	SUPGROW	INCELAS	PTELAS					
WH	18084	22640	-4556		4556	169	169	169	241	169	.70	3056	5466	.024	.55	.25	.90	Wheat				
CN	2914	2924	-10		10	111	111	105	123	111	.90	323	361	.009	.12	.90	.20	Coarse Gr.				
CG	1102	1102				105	105	320	117	105	.90	116	129	-.004		.20	.40	Rice				
RI	24713	24732	-19	749	768	320	320	275	289	320	.50	7908	15828	.016	.65	.50	.50	Soybeans				
S8		9				275	275	247	269	275	.95	2	3	.041	.70	.50	.50	SoyMeal				
SM		27	-26		26	247	247	431	309	247	.80		8	.041	.92	.50	.50	SoyOil				
SO		618	-618		618	431	431	630	862	431	.50	2544	533	.041	.70	.50	.50	OilSeeds				
OS	4038	3956	82	135	53	630	630	200	700	630	.90	312	2769	.008	.70	.50	.50	Meals				
OM	1562	1530	32	32		200	200	774	250	200	.80	600	382	.008	.93	.50	.50	Other Oils				
OO	775	1352	-577	234	811	774	774	1674	1548	1674	.50	2486	2093	.008	1.18	.50	.50	Cotton				
CT	1485	1253	232	310	78	1674	1674	282	3348	1674	.50	720	4195	.021	.67	.30	.30	Sugar (rfind.)				
SU	2552	2879	-327	391	718	282	282	3844	564	282	.50	457	953	.010	.89	.50	.50	Tobacco				
TB	119	124	-5	3	8	3844	3844		7688	3844	.50			.002								
OS																						
1989																						
													</									

WH CN CG RI S8 SM SO OS OM CT CU SU TB

Summary of support (%):	Support Measures PSE	Value share of -Prod.	-----Share of----- Produc. Agric. Support	Summary of base information:	Million US \$	Base model spreadsheet -->
						Support spreadsheet ----->
				Production Value	18525	
				Market Value	18525	
				Consumption Value	34343	
Food crops		59.2	62.0	Government Expenditures		Exchange rates in:
Feed crops		2.4	1.4	Producer Support		Model spreadsheet
Oilseeds, prod.		18.7	16.9	Consumer Transfer		Support spreadsheet
Other crops		19.8	19.7	Total TDS Estimate	0	Currency unit per US\$
						Base year ----->
Crops, oilseeds		100.0	100.0	Last update	12/21/91	
All products		100.0	100.0	Date printed	2/ 4/92	
						Base data ----->





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ML 1989  
 Prod. SUPPLY  
 Cons. DEMAND  
 P-C-E-I  
 NTRADE  
 Exports EXPORTS  
 Imports IMPORTS  
 World WPRICE  
 Market MPRICE  
 Producer PRPRICE  
 Trade share C. TDPRICE  
 Producer PRSHARE  
 ---Base Values (M. US\$)---  
 Cons. G. Exp. & Price Trans. ELAST  
 ---Projection parameters  
 SUPOROM INCELAS PTELAS  
 Product definition and manonics:  
 Trade D. M US\$ VTDS

WH	655	-655	45	700	169	169	241	169	70	158	.005	.30	WH	Wheat
CN	1554	-1520		1520	111	105	117	111	.90	192		.07	CN	Corn
CG					320	320	640	320	.50			.40	CG	O. Coarse Gr.
RI	1147	-367		367	275	275	640	320	.95	969	.007	.30	RI	Rice
SB	290	-422	9	431	247	247	309	275	.80	122	-.025	.40	SB	Soybeans
SM	64	-107		107	431	431	862	431	.50	123	-.025	.40	SM	SoyMeal
SO	2070	50	89	39	630	630	700	630	.90	12	-.025	.40	SO	SoyOil
OS	1102	16	44	28	200	200	250	200	.80	1438	-.021	.40	OS	O. oilSeeds
OM	7313	930	975	45	774	774	1548	774	.50	43	.021	.40	OM	O. Meals
CO		6209	6246	37	1674	1674	3348	1674	.50	1709	.021	.40	CO	Other Oils
CI		-46		46	282	282	564	282	.50	154	.037	.50	CI	Cotton
SU		-571	226	797	3844	3844	7688	3844	.50	378	.029	.20	SU	Sugar (rfind.)
TB		-3		3						115		.50	TB	Tobacco

ML 1989  
 --Model Price Wedges (US \$/MT)--  
 DPSW CSW ESW MSW  
 ---Model Price Wedges (%)---  
 DPSM% CSM% ESM% MSM%  
 ---Producer and Consumer Subsidy Equivalent Rates---  
 PSE CSE MS  
 ---US \$/MT---  
 PSE CSE MS  
 ---Budget Wedges (US \$/MT)---  
 Import Export Prod. Cons. Share US \$/MT  
 MSE EBSE PBSE CBSE S-SIDE SUPTAX

WH  
 CN  
 CG  
 RI  
 SB  
 SM  
 SO  
 OS  
 OM  
 CO  
 CI  
 SU  
 TB

Summary of support (%):	Support Measures	Value share of-	Share of-	Summary of base information:	Million US \$	Base model spreadsheet -->	W899ML
	PSE	-Prod. -Cons.	Product Support	Production Value	7729	Support spreadsheet -->	W899ML
Food crops		4.7		Market Value	7729	Exchange rates in:	
Feed crops		20.8		Consumption Value	5413	Model spreadsheet	1
Oilseeds, prod.		94.2		Government Expenditures		Support spreadsheet	2-5814
Other crops		1.0		Producer Support		Currency unit per US\$	RINGGIT
				Consumer Transfer		Base year	1989
Crops, oilseeds		100.0	100.0	Total TDS Estimate	0		
All products		100.0	100.0	Last update	12/21/91	Base data	W899ML
				Date printed	2/4/92		



[illegible]



[illegible]

SA	Prod. SUPPLY	Cons. DEMAND	Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Producers	Trade share C	Producers	Base Values (M. US\$)	Projection parameters	Product definition and immanic	Trade D.
1989			Imports	World	Market	Producers	Trade share C	Prod. Cons.	G. Exp. & Price Trans. Elast.		M US\$
			Imports	Imports	Imports	Imports	Imports	Imports	Imports		VDS
BF	13	-13	3	16	2567	2567	2567	55	61	BF	Beef & veal
PK	75	90	17	32	2176	2176	2176	50	392	PK	Pork
ML	2	-2			2321	2321	2321	50	9	ML	Mutton & Lamb
PM	58	96	10	48	1039	1039	1039	55	181	PM	Poultry Meat
PE	14	-28		28	1696	1696	1696	60	118	PE	Poultry, Eggs
WH	200	-605	50	655	169	169	169	70	194	WH	Wheat
CN	1133	-85	225	310	111	111	111	90	150	CN	Corn
CG	180	1391	1711	320	105	105	105	90	21	CG	o. Coarse Gr.
R1	22614	153	45	50	320	320	320	50	13582	R1	Rice
S8	148	-5	40	100	275	275	275	95	44	S8	Soybeans
SM	24	-60	40	100	247	247	247	80	26	SM	SoyMeal
SO	5	-15	85	100	431	431	431	50	17	SO	SoyOil
OS	1032	-42	93	135	630	630	630	90	752	OS	o. oilSeeds
OM	265	-24	32	56	200	200	200	80	72	OM	o. Meals
OO	268	-190	770	960	774	774	774	50	709	OO	Other Oils
CT	19	-88	4	92	1674	1674	1674	50	358	CT	Cotton
SU	450	-310	11	321	282	282	282	50	429	SU	Sugar (rfind.)
TB	74	-46	4	50	3844	3844	3844	50	923	TB	Tobacco
SA	Prod. SUPPLY	Cons. DEMAND	Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Producers	Trade share C	Producers	Base Values (M. US\$)	Projection parameters	Product definition and immanic	Trade D.
1989			Imports	World	Market	Producers	Trade share C	Prod. Cons.	G. Exp. & Price Trans. Elast.		M US\$
			Imports	Imports	Imports	Imports	Imports	Imports	Imports		VDS
BF	13	-13	3	16	2567	2567	2567	55	61	BF	Beef & veal
PK	75	90	17	32	2176	2176	2176	50	392	PK	Pork
ML	2	-2			2321	2321	2321	50	9	ML	Mutton & Lamb
PM	58	96	10	48	1039	1039	1039	55	181	PM	Poultry Meat
PE	14	-28		28	1696	1696	1696	60	118	PE	Poultry, Eggs
WH	200	-605	50	655	169	169	169	70	194	WH	Wheat
CN	1133	-85	225	310	111	111	111	90	150	CN	Corn
CG	180	1391	1711	320	105	105	105	90	21	CG	o. Coarse Gr.
R1	22614	153	45	50	320	320	320	50	13582	R1	Rice
S8	148	-5	40	100	275	275	275	95	44	S8	Soybeans
SM	24	-60	40	100	247	247	247	80	26	SM	SoyMeal
SO	5	-15	85	100	431	431	431	50	17	SO	SoyOil
OS	1032	-42	93	135	630	630	630	90	752	OS	o. oilSeeds
OM	265	-24	32	56	200	200	200	80	72	OM	o. Meals
OO	268	-190	770	960	774	774	774	50	709	OO	Other Oils
CT	19	-88	4	92	1674	1674	1674	50	358	CT	Cotton
SU	450	-310	11	321	282	282	282	50	429	SU	Sugar (rfind.)
TB	74	-46	4	50	3844	3844	3844	50	923	TB	Tobacco

[illegible]



SK	-----Base Quantity Data (1000 MT)-----			-----Base Price Data (US\$/MT)-----			-----Base Values (M. US\$)-----			---Projection parameters			Product definition and mnemonic:	Trade D. M US\$						
	Prod. SUPPLY	P-CE-I DEMAND	Exports	Imports	World	Market	Consumer	US\$/MT	Trade share C. TDPRICE	Producer PRSHARE	Prod. BPRICE	Cons. BCVALUE			G. Exp. GAEXP	Price Trans. INCELAS	Elast. PTELAS			
1989	124	207	-83	12	26	83	2567	9304	16916	2415	55	1154	3502	43	10					
BF	485	473	12	26	26	26	2176	2456	4912	2547	50	1191	2323	56	40					
PK	158	158	1	1	1	1	2321	2321	4642	2321	50	2	794	58	10					
ML	419	419					1039	2765	2064	2064	55	437	1048	66	40					
PM							1696	1501	2502	868	60	629		61	40					
PE																				
1	1	2001	-2000			2000	169	169	241	169	70	483	483	29	50					
WH	121	6221	-6100			6100	111	419	465	111	90	2893	2893	11	70					
ON	721	1023	-302			302	105	689	766	197	90	497	783	05	30					
CG																				
RI	5898	5897	-1	1		1075	320	1527	3054	453	95	9008	18012	31	30					
SB	252	1327	-1075			1464	275	1464	1541	312	80	369	2044	-10	30					
SM	685	1084	-429			267	267	267	309	267	50	162	335	-10	30					
SO	140	141	-1			431	431	431	862	431	50	60	122	70	30					
OS	56	125	-69			630	630	630	700	630	90	87	87	-10	30					
OM	167	693	-526			200	200	200	250	200	80	33	173	-10	30					
OD	52	313	-261			774	774	774	1548	774	50	40	485	70	30					
CT		444	-444			1674	1674	1674	3348	1674	50		1487	-73	50					
CU		805	-805			282	175	175	349	175	50	281	281	33	20					
SU		57	-14			3844	3844	3844	7688	3844	50	273	438	31	50					
TB																				
1	1	2001	-2000			2000	169	169	241	169	70	483	483	29	50					
WH	121	6221	-6100			6100	111	419	465	111	90	2893	2893	11	70					
ON	721	1023	-302			302	105	689	766	197	90	497	783	05	30					
CG																				
RI	5898	5897	-1	1		1075	320	1527	3054	453	95	9008	18012	31	30					
SB	252	1327	-1075			1464	275	1464	1541	312	80	369	2044	-10	30					
SM	685	1084	-429			267	267	267	309	267	50	162	335	-10	30					
SO	140	141	-1			431	431	431	862	431	50	60	122	70	30					
OS	56	125	-69			630	630	630	700	630	90	87	87	-10	30					
OM	167	693	-526			200	200	200	250	200	80	33	173	-10	30					
OD	52	313	-261			774	774	774	1548	774	50	40	485	70	30					
CT		444	-444			1674	1674	1674	3348	1674	50		1487	-73	50					
CU		805	-805			282	175	175	349	175	50	281	281	33	20					
SU		57	-14			3844	3844	3844	7688	3844	50	273	438	31	50					
TB																				
1989	DPSW	Price CSM	Wedges ESW	MSW	Value share of -Prod.	Share of -Prod. Support	Model Price CSW	Internal Price PSE1P%	Consumer Price CSE1P%	Subsidy % World Price PSEMP%	Producer and Consumer Subsidy Equivalent PSE	US \$/MT CSE	Mkt. S. MS	Import MSSE	Budget Wedges Export EBSE	Wedges (US \$/MT) Prod. PBSE	Set-aside P. Cons. CSSE	Share US \$/MT S-SIDE	SUPTAX	
BF	6889	-6889	-91	91	6889	74.0	-40.7	74.0	-40.7	268.4	6889	-6889	6889	-91	91	6889	6889	6889	6889	6889
PK																				
ML																				
PM	701	-701	-634	634	701	25.3	-13.9	25.3	-13.9	67.4	701	-701	701	-634	634	701	701	701	701	701
PE																				
1989	DPSW	Price CSM	Wedges ESW	MSW	Value share of -Prod.	Share of -Prod. Support	Model Price CSW	Internal Price PSE1P%	Consumer Price CSE1P%	Subsidy % World Price PSEMP%	Producer and Consumer Subsidy Equivalent PSE	US \$/MT CSE	Mkt. S. MS	Import MSSE	Budget Wedges Export EBSE	Wedges (US \$/MT) Prod. PBSE	Set-aside P. Cons. CSSE	Share US \$/MT S-SIDE	SUPTAX	
BF	308	-308	-492	492	308	73.6	-66.2	73.6	-66.2	277.4	308	-308	308	-492	492	308	308	308	308	308
ON	492	-492	-1074	1074	492	71.3	-64.2	71.3	-64.2	468.1	492	-492	492	-1074	1074	492	492	492	492	492
CG																				
RI	1074	-1074	-1151	1151	1074	70.3	-35.2	70.3	-35.2	335.7	1074	-1074	1074	-1151	1151	1074	1074	1074	1074	1074
SB																				
SM																				
SO																				
OS																				
OM																				
OD																				
CT																				
SU																				
TB																				
Summary of support (%):																				
Base model spreadsheet --> W089USX																				
Support spreadsheet -----> W089USX																				
Exchange rates in: Model spreadsheet 1																				
Support spreadsheet 671																				
Currency unit per US\$ W089USX																				
Base year -----> 1989																				
Base data -----> W089USX																				

Supply Elasticity Matrix for --> WD89bTW													SUPPLY ELASTICITIES													Value (Million US\$) of Production Exports												
1989													1989													1989												
Supply	BF	PK	ML	PM	PE	WH	CN	CG	RI	SB	SM	SO	OS	OM	CO	CT	SU	TB	Row Sum	Self Suffic. Ratio																		
BF	.40	-.10				-.05	-.20	-.03		-.08				-.02					-.30	BF	1.12																	
PK		.65				-.04	-.03	-.02		-.05				-.01					-.27	PK	1.21																	
ML			.50			-.08	-.29	-.06		-.09				-.02					-.50	ML	1.50																	
PM				.80															-.64	PM	1.01																	
PE					.80														-.25	PE	1.01																	
WH						.35														WH																		
CN							.53	-.05	-.20											CN																		
CG							-.24	.60	-.10											CG																		
RI							-.03		.20											RI																		
SB										.30										SB																		
SM										-.40	.33	.12								SM																		
SO										-.40	.33	.12	-.20							SO																		
OS										-.04			.35	.13						OS																		
OM													-.41	.33						OM																		
CO													-.41	.33						CO																		
CT															.20					CT																		
SU																.20				SU																		
TB																	.40			TB																		
Product definition and immanonic:																																						
S-D Sum																																						
BF 1.04																																						
PK .81																																						
ML 1.09																																						
PM 1.19																																						
PE .75																																						
WH																				WH																		
CN																				CN																		
CG																				CG																		
RI																				RI																		
SB										-.15	.06	.02								SB																		
SM										-.25	-.59	-.90								SM																		
SO												-.02								SO																		
OS												-.18								OS																		
OM											.08	.24								OM																		
CO																				CO																		
CT																				CT																		
SU																				SU																		
TB																				TB																		
Shares of Product Going to Intermediate Demand for --> WD89bTW																																						
Supply--> SSF SPX SML SPM SPE																																						
WH																				WH																		
CN																				CN																		
CG																				CG																		
SB																				SB																		
SM																				SM																		
OS																				OS																		
OM																				OM																		
CT																				CT																		
SU																				SU																		
TB																				TB																		
Date printed 2/3/1992																																						
Last update 1/30/1992																																						
Base year -----> 1969																																						
Exchange rate (LC/US\$) -----> 1																																						
Transmission elast. -----> .0316																																						
Income growth rate -----> .0098																																						
Population growth rate -----> .87266																																						
Income (Million US\$) -----> 20103																																						
Population (1000) -----> 4341																																						
Per Capita Income (\$) -----> 1089bTW																																						
Model spreadsheet ----> 1089bTW																																						
Elasticities for --> 1089bTW																																						



[illegible]







RM	1989	Prod. SUPPLY	Cons. DEMAND	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	World Market Producer	Producers Trade share C.	Prod. Cons. G. Exp. & Price Trans. Elast.	Projection parameters	Product definition and immanic:	Trade D. M US\$ VIDS
				Imports Exports	Imports Exports	Imports Exports	Imports Exports	Imports Exports	Imports Exports		
BF	1065	-1065	1065	1065	1065	1065	1065	1065	1065	BF	Beef & veal
PK	99	-99	99	99	99	99	99	99	99	PK	Pork
ML	250	-250	250	250	250	250	250	250	250	ML	Mutton & Lamb
PM	535	-450	141	450	1039	1696	1696	1696	1696	PM	Poultry Meat
PE	85	-141	141	141	1696	1696	1696	1696	1696	PE	Poultry, Eggs
DM	424	-424	424	424	272	272	272	272	272	DM	Dairy - fluid Milk
DB	247	-247	247	247	2866	2866	2866	2866	2866	DB	Dairy - Butter
DC	247	-247	247	247	3009	3009	3009	3009	3009	DC	Dairy - Cheese
DP	472	-472	472	472	2326	2326	2326	2326	2326	DP	Dairy - Powder
WH	740	-2685	1919	2685	169	169	169	169	169	WH	Wheat
CN	1964	1769	1919	150	111	111	111	111	111	CN	Co. Coarse Gr.
CS	710	-75	401	75	105	105	105	105	105	CS	Rice
RI	130	-271	401	130	320	320	320	320	320	RI	Soybeans
SB	1471	-1471	391	1471	275	275	275	275	275	SB	SoyMeal
SM	391	-391	391	391	247	247	247	247	247	SM	SoyMeal
SO	201	-201	602	201	431	431	431	431	431	SO	SoyMeal
OS	631	-602	602	406	630	630	630	630	630	OS	O. oil (Seeds)
OM	12	-406	602	817	200	200	200	200	200	OM	O. Meals
CO	5	-822	179	817	774	774	774	774	774	CO	Other Oils
CT	186	-177	307	2	1674	1674	1674	1674	1674	CT	Colton
SU	307	-33	307	340	282	282	282	282	282	SU	Sugar (rfind.)
TB	4	-45	1	46	3844	3844	3844	3844	3844	TB	Tobacco

RM	1989	Prod. SUPPLY	Cons. DEMAND	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	World Market Producer	Producers Trade share C.	Prod. Cons. G. Exp. & Price Trans. Elast.	Projection parameters	Product definition and immanic:	Trade D. M US\$ VIDS
				Imports Exports	Imports Exports	Imports Exports	Imports Exports	Imports Exports	Imports Exports		
BF	1065	-1065	1065	1065	1065	1065	1065	1065	1065	BF	Beef & veal
PK	99	-99	99	99	99	99	99	99	99	PK	Pork
ML	250	-250	250	250	250	250	250	250	250	ML	Mutton & Lamb
PM	535	-450	141	450	1039	1696	1696	1696	1696	PM	Poultry Meat
PE	85	-141	141	141	1696	1696	1696	1696	1696	PE	Poultry, Eggs
DM	424	-424	424	424	272	272	272	272	272	DM	Dairy - fluid Milk
DB	247	-247	247	247	2866	2866	2866	2866	2866	DB	Dairy - Butter
DC	247	-247	247	247	3009	3009	3009	3009	3009	DC	Dairy - Cheese
DP	472	-472	472	472	2326	2326	2326	2326	2326	DP	Dairy - Powder
WH	740	-2685	1919	2685	169	169	169	169	169	WH	Wheat
CN	1964	1769	1919	150	111	111	111	111	111	CN	Co. Coarse Gr.
CS	710	-75	401	75	105	105	105	105	105	CS	Rice
RI	130	-271	401	130	320	320	320	320	320	RI	Soybeans
SB	1471	-1471	391	1471	275	275	275	275	275	SB	SoyMeal
SM	391	-391	391	391	247	247	247	247	247	SM	SoyMeal
SO	201	-201	602	201	431	431	431	431	431	SO	SoyMeal
OS	631	-602	602	406	630	630	630	630	630	OS	O. oil (Seeds)
OM	12	-406	602	817	200	200	200	200	200	OM	O. Meals
CO	5	-822	179	817	774	774	774	774	774	CO	Other Oils
CT	186	-177	307	2	1674	1674	1674	1674	1674	CT	Colton
SU	307	-33	307	340	282	282	282	282	282	SU	Sugar (rfind.)
TB	4	-45	1	46	3844	3844	3844	3844	3844	TB	Tobacco

Summary of support (%)	Support Measures	Value share of -Prod. -Cons.	Share of -Source- Product. Support	Summary of base information:	Million US \$	Base model spreadsheet -->	Support spreadsheet -->
Meat & eggs	18.3	50.0	50.0	Production Value	1788	Model spreadsheet	1
Dairy	14.2	26.1	26.1	Market Value	1788	Support spreadsheet	1
Food crops	16.4	6.0	6.0	Consumption Value	15146	Currency unit per US\$	US\$
Feed crops	13.2	13.2	13.2	Government Expenditures	0	Base year	1989
Oilseeds, prod.	28.0	4.0	4.0	Producer Support			
Other crops	23.1	76.1	76.1	Consumer Transfer			
Animal Products	18.4	23.9	23.9	Total TDS Estimate			
Crops, oilseeds	81.6	100.0	100.0	Last update	2/10/92		
All products	100.0			Date printed	2/10/92		

### Country/region coverage in the SW89 Database

Code	Country/region
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US	United States
CN	Canada
EC	European Community
WE	Other Western Europe
JP	Japan
AU	Australia
NZ	New Zealand
CP	Centrally planned countries: Eastern Europe, Soviet Union, Peoples' Republic of China
DE	Developing exporters: Brazil, Argentina, Indonesia, Thailand, Malaysia, Philippines
DA	Developing Asian importers: South Korea, Taiwan, Other East Asia
RW	Rest-of-world = other developing country importers: South Africa, Mexico, Central America & Caribbean, Venezuela, other Latin America, Nigeria, other Subsaharan Africa, Egypt, Middle East & North Africa - oil producers, Middle East & North Africa - other countries, India, other South Asia, other Southeast Asia, Rest-of-world

SW89 Master file for Small World model - 1989

IME----- CP DC--- DM

US CN EC WE JP AU NZ CP DE DA RW - - - -

BF	D	D	D	D	D	D	D	D	D	D	D	IU	.	.	.
PK	D	D	D	D	D	D	D	D	D	D	D	IU	.	.	.
ML	D	D	D	D	D	D	D	D	D	D	D	IU	.	.	.
PM	D	D	D	D	D	D	D	D	D	D	D	IU	.	.	.
PE	D	D	D	D	D	D	.	D	D	D	D	IU	.	.	.
DM	D	D	D	D	D	D	D	D	D	.	D	IB	IN	NT	.
DB	D	D	D	D	D	D	D	D	D	.	D	IU	OU	.	.
DC	D	D	D	D	D	D	D	D	D	.	D	IU	OU	.	.
DP	D	D	D	D	D	D	D	D	D	.	D	IU	OU	.	.
WH	1	1	1	1	1	1	1	1	1	1	1	I	.	.	.
CN	1	1	1	1	1	1	1	1	1	1	1	I	.	.	.
CG	1	1	1	1	1	1	1	1	1	1	1	I	.	.	.
RI	1	1	1	1	1	1	.	1	1	1	1	.	.	.	.
SB	1	1	1	1	1	1	1	1	1	1	1	I	IN	.	.
SM	D	D	D	D	D	D	D	D	D	D	D	IB	OU	.	.
SO	D	D	D	D	D	D	D	D	D	D	D	IU	OU	.	.
OS	1	1	1	1	1	1	1	1	1	1	1	I	IN	.	.
OM	D	D	D	D	D	D	D	D	D	D	D	IB	OU	.	.
OO	D	D	D	D	D	D	D	D	D	D	D	IU	OU	.	.
CT	1	1	1	1	1	1	.	1	1	1	1	.	.	.	.
SU	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.
TB	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.







[illegible]

Demand Elasticity Matrix for --> SUBCODE																									1989												DEMAND ELASTICITIES												Product definition and mnemonic:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	S-D Sum	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	S-D Sum	Beef and veal	Pork	Mutton and Lamb	Poultry Meat	Poultry, Eggs	Dairy - fluid Milk	Dairy - Butter	Dairy - Cheese	Dairy - milk Powder	Wheat	Corn	other Coarse Grains	Rice	Soybeans	SoyMeal	SoyOil	Other oilSeeds	Other Meals	Other Oils	Cotton	Sugar (refined)	Tobacco																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
-.66	-.11		.07																		-.47	-.93		-.68	-.81		-.58	-.97		-.46	-.89		-.50	-.85		-.20	-.63		-.27	-.70		-.65	-.70		-.60	-.66		-.21	-.55		-.19	-.42		-.28	-.57		-.05	-.46		-.20	-.25		-.73	-.80		-.05	-.46		-.04	-.37		-.06	-.83		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84		-.51	-.88		-.04	-.64		-.11	-.84</

Shares of Product Going to Intermediate Demand for --> SA699DE													Date printed				
Supply-->													Last update				
DM	SBF	SPK	SNL	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSD	SOM	SOD	Row	Final Dem.	Final Dem. Share	Elastic.
							.06	.28	.06					.40	.60	-.30	DM
WH	.13	.17		.16	.05	.13								.64	.36	-.30	WH
CG	.12	.19		.18	.06	.12								.67	.33	-.30	CG
SB	.09	.28		.27	.07	.09			.78	.18				.96	.04	-.31	SB
SM														.80	.20	-.30	SM
OS	.05	.16		.18	.05	.05					.29	.71		1.00		-.46	OS
OM														.49	.51	-.30	OM
Feed Ratios (Total feed/animal prod.)													Date printed				
SBF SPK SNL SPM SPE													Last update				
.85 74 83 73 76													Base year ----->>>				
.85 5.72 .49 2.61 2.75													Exchange rate (LC/US\$)				
.feed mix percent by animal product.													Transmission elast.				
SBF SPK SNL SPM SPE													Income growth rate				
85 74 83 73 76													Population growth rate				
6 6 6 6 7													Income (Million US\$)				
8 16 11 16 14													Population (1000)				
2 4 4 4 4													Per Capita Income (\$)				
..Estimated protein percentage..													Model spreadsheet ---->>>				
SBF SPK SNL SPM SPE													SA699DE				
12.4 15.9 13.0 16.2 15.3													Elasticities for -->				
Av. meal/grain price ratio = 3.20													SA699DE				
Av. feed protein percent = 14.6																	



[illegible]

[illegible]

Supply Elasticity Matrix for --> SAGROW																						1989	SUPPLY ELASTICITIES											ROW SUM				Self Suffic. Ratio	Value (Million US\$) of Production Exports
	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	ON	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB																	
BF																								12727															
PK	.35																							4392															
ML	-.05	.55																						3820															
PM			.44																					4906															
PE		-.01		.66																				3441															
DM					.50																			14186															
DB						.36			.02															2421															
DC							.17	-.02																2518															
DP								.19	.02															251															
WH										.40														17594															
ON											.45													11291															
CG												.51												15254															
RI													.38											29132															
SB														.01										1898															
SM															.43									2855															
SO																.28								630															
OS																	.28							894															
OM																		.30						15058															
OO																			.30					536															
CT																				.28				3085															
SU																					.28			19050															
TB																						.51		812															
																							1.26	3681															
																							1.10	374															
																							1.15	13081															
																							1.15	5405															
																								3															
																								492															
																								514															
																								24															
																								1021															
																								285															
																								381															
																								32															
																								536															
																								742															
																								812															
																								3681															
																								374															
																								1707															

Demand Elasticity Matrix for --> SAGROW																							1989	DEMAND ELASTICITIES										ROW	S-D	Product definition and mnemonic:
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	ON	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Sum	Sum	BF												
-.73	-.11	.01	.05		.03	.01	.01		-.03		-.01	-.03									-.60	-.93	Beef and veal													
-.09	-.85		.06						-.03												-.50	-.78	Pork													
.11	.06	-.52	-.10		.11	.03			-.03	-.01	-.03	.11									-.44	-.85	Mutton and Lamb													
		.09				.01			-.01	-.02	-.03	-.01									-.43	-.79	Poultry Meat													
			-.67		.12	.03	.01		-.03	-.02	-.03	-.03									-.50	-.58	Poultry Eggs													
				-.55	-.24	.01			-.05	-.03	-.06	-.05									-.23	-.53	Dairy - fluid Milk													
.03		.04	.02	.04		.61	.38		-.06	-.03	-.06	-.06			.02			.13			-.51	-.37	Dairy - Butter													
.04	.01							-.31	-.06	-.01	-.01	-.01									-.32	-.33	Dairy - Cheese													
.04			.02			.01			-.30	-.01	-.01	-.01									-.28	-.33	Dairy - milk Powder													
-.03		.01			-.04	.01				-.34	.02	.04									-.31	-.58	Wheat													
-.01	-.01	-.01	-.01			.01				-.01	-.34	.07									-.32	-.62	Corn													
-.01	-.01	-.01	-.01			.01			.05	.01	.02	.45									-.31	-.62	other Coarse Grains													
-.02		-.02			-.02	.01					.02		-.31		.15						-.44	-.73	Rice													
														.10							-.06	-.34	Soybeans													
													-.46				.04				-.42	-.47	SoyMeal													
						.02			-.01		-.02				-.49		.23				-.27	-.32	SoyOil													
																-.42	.05				-.05	.16	Other oilSeeds													
														.01			-.44				-.43	-.48	Other Meals													
						.01									.02			-.46			-.42	-.47	Other Oils													
											-.01								-.49		-.50	-.85	Cotton													
																				-.37	-.66	Sugar (refined)														
																				-.37	-.47	-.65	Tobacco													

Shares of Product Going to Intermediate Demand for --> SAGROW															Date printed		
Supply-->															Last update		
DM	WH	ON	CG	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	Final Dem. Share	Final Dem. Elab.		



[illegible]



### Appendix 3--EU89-European Model Data

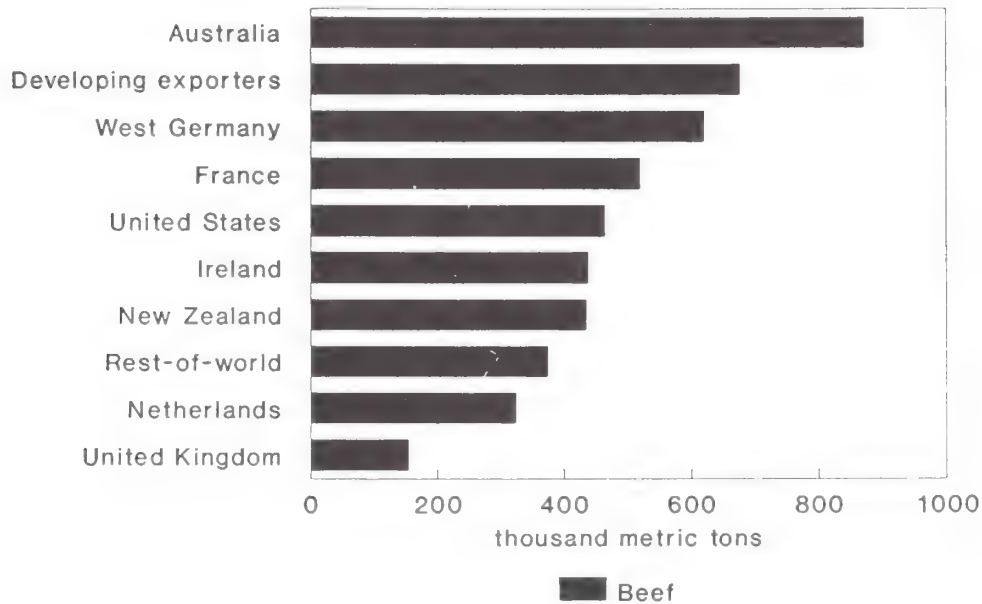
The following pages contain the output of the SWOPSIM programs EOUT and BOUT for each of the countries/regions in the world model denoted EU89, which have not already been listed as part of the WD89 database. Thus, even though there are 37 regions in this database, we only print the data for the 29 unique to this database. The countries/regions not reprinted are denoted by bold type in the following table.

#### Country/region coverage in the EU89 Database

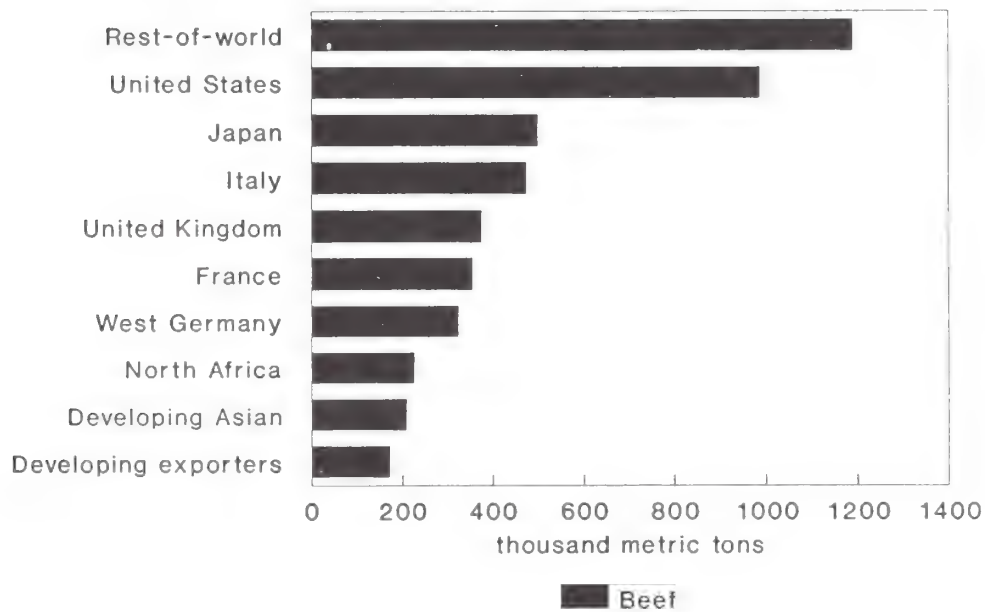
Code	Country/region
US	United States
CN	Canada
JP	Japan
AU	Australia
NZ	New Zealand
DA	Developing Asian importers
DE	Developing country exporters
BL	Belgium-Luxembourg
DN	Denmark
FR	France
GC	Greece
IR	Ireland
IT	Italy
NT	Netherlands
PT	Portugal
SP	Spain
UK	United Kingdom
WG	West Germany
GD	former German Democratic Republic
AT	Austria
FN	Finland
NO	Norway
SW	Sweden
SZ	Switzerland
OW	Other Western Europe: Faeroe Islands, Iceland, Malta
AB	Albania
BI	Bulgaria
CZ	Czechoslovakia
HU	Hungary
PL	Poland
RM	Romania
YU	Yugoslavia
SV	Soviet Union
TK	Turkey
NF	North Africa
OM	Other Middle East: Bahrain, Cyprus, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, United Yemen, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates
RW	Rest-of-world



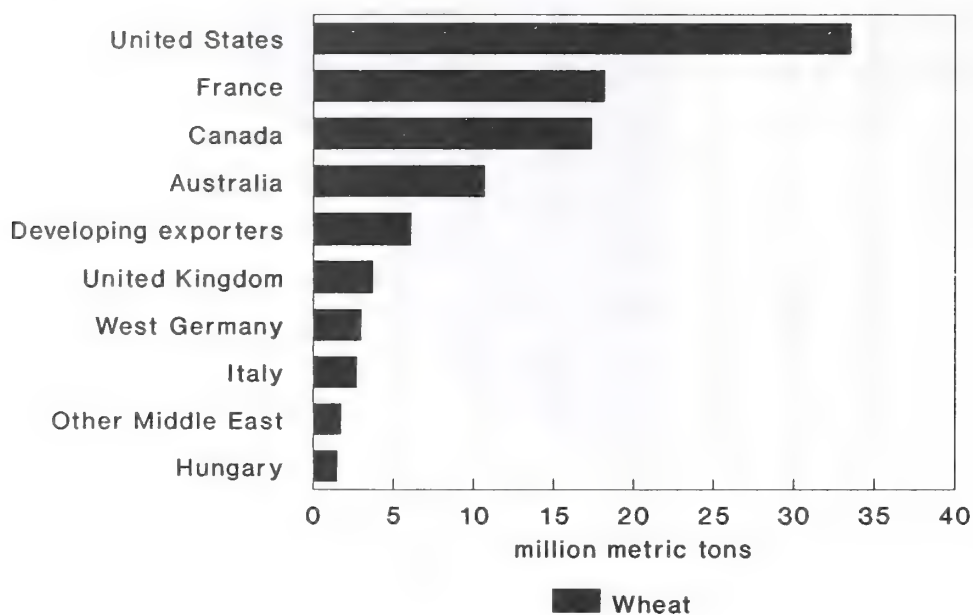
## Top 10 Exporters in the EU89 Database



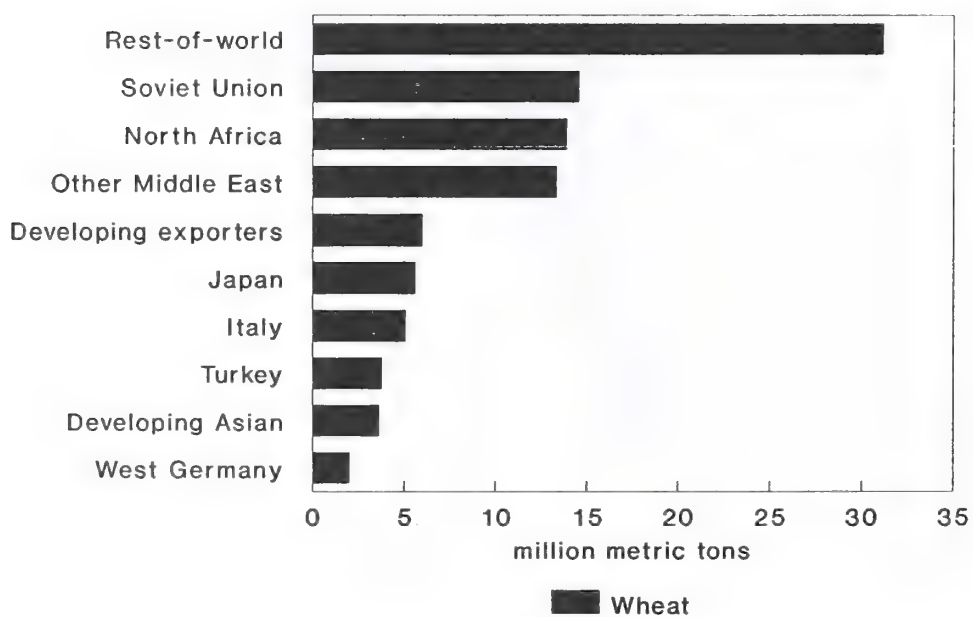
## Top 10 Importers in the EU89 Database



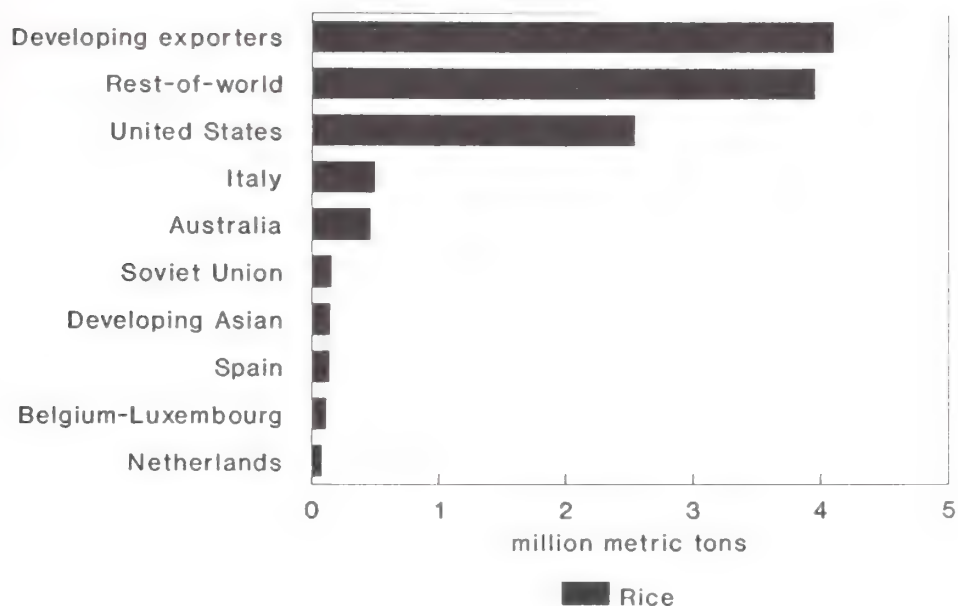
## Top 10 Exporters in the EU89 Database



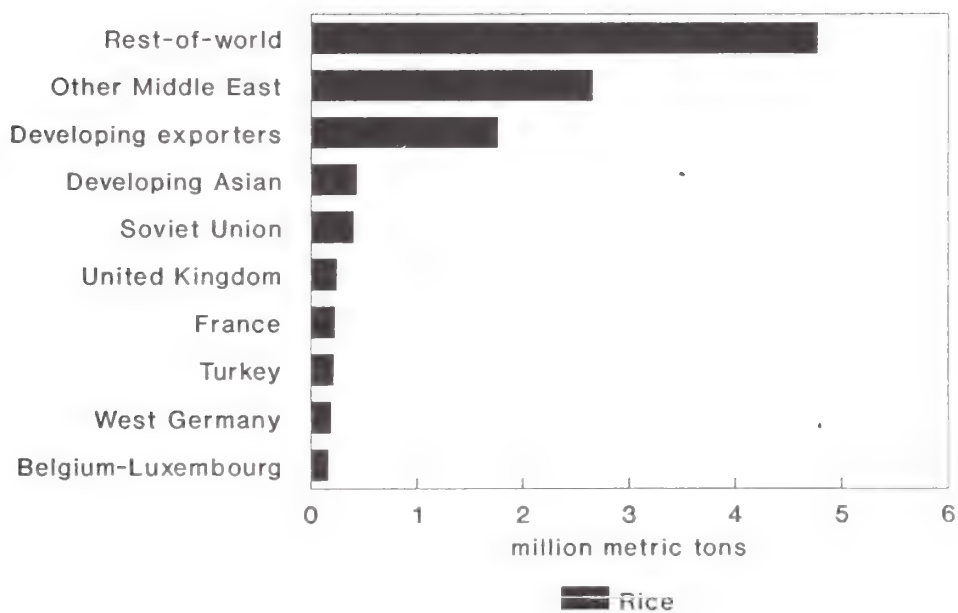
## Top 10 Importers in the EU89 Database



## Top 10 Exporters in the EU89 Database



## Top 10 Importers in the EU89 Database







[illegible]

Supply Elasticity Matrix for --> EUB95DN																			
1989										SUPPLY ELASTICITIES									
BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT
BF	55	-07			.15				-.02		-.05			-.03			-.02		
PK	80				-.08				-.03		-.04			-.04			-.03		
ML									-.05	-.01				-.02			-.04		
PM		.70							-.10		-.01			-.02			-.02		
PE			.80						-.16		-.01			-.02			-.02		
DM				.75					-.02		-.05			-.06			-.04		
D8					.65														
DC					-.10														
DP					-.10														
WH									.50		-.16					-.05			
CN									-.15		-.55					-.03			
CG												.35							
RI																-.10			
SB													.40						
SM													-.37						
SO													-.37						
OS															.12				
OM																			
OO																			
CT																			
SU																			
TB																			

Demand Elasticity Matrix for --> EUB95DN																			
1989										DEMAND ELASTICITIES									
BF	PK	ML	PM	PE	DM	D8	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT
BF	70								-.50		.07								
PK	80								1.07	-.81	.15								
ML									-.07		-.56								
PM									.46										
PE																			
DM																			
D8																			
DC																			
DP																			
WH																			
CN																			
CG																			
RI																			
SB																			
SM																			
SO																			
OS																			
OM																			
OO																			
CT																			
SU																			
TB																			

Shares of Product Going to Intermediate Demand for --> EUB95DN																			
Supply-->										Final									
DM	WH	CN	CG	SB	SM	SPE	SOM	SDB	SOC	Row	Dem.	Share	Elas.						
DM	04	08	09	06	03	06	09	18	55	.76	.24	.20	DM						
WH	17	23	24	17	10	10	17			.39	.61	.20	WH						
CN										.70	.30	.20	CN						
CG										.55	.47	.20	CG						
SB										.98	.02	.37	SB						
SM										.76	.24	.20	SM						
OS										1.00	.10	.28	OS						
OM										.76	.24	.20	OM						

DN	1989	Prod. SUPPLY	Cons. DEMAND	P-CE-1 INTRADE	Quantity Data (1000 MT)	Imports	Exports	World	Base Price Data	Consumer	Trade share C.	Producer	Base Values (M. US\$)	Proj. Cons. G. Exp.	Projection parameters	Product definition and mnemonic	Trade D. M US\$ VTD\$
BF	205	86	119	842	29	14	842	2567	2567	4667	2567	2567	526	401	.012	BF	Beef & veal
PK	1165	337	828	71	3	3	842	2176	2176	4352	2176	2176	235	1467	.017	PK	Pork
ML	128	63	5	71	6	6	71	2321	2321	4642	2321	2321	5	23	.012	ML	Mutton & Lamb
PM	85	4747	65	2	7	7	2	1039	1039	1889	1039	1039	133	119	.020	PM	Poultry Meat
PE	4747	83	65	2	7	7	2	1696	1696	2827	1696	1696	145	235	.009	PE	Poultry Eggs
DM	92	52	201	40	15	15	40	272	272	3544	272	272	1291	2582	.011	DM	Dairy - fluid Milk
DB	275	74	201	216	15	15	216	2866	2866	3582	2866	2866	264	186	.011	DB	Dairy - Butter
DC	275	74	201	216	15	15	216	3009	3009	4309	3009	3009	827	318	.011	DC	Dairy - Cheese
DP	13	15	1033	4	7	7	4	2326	2326	2907	2326	2326	30	44	.011	DP	Dairy - Powder
WH	3224	2191	1033	1040	40	40	1040	169	169	241	169	169	545	529	.019	WH	Wheat
CN	5578	4408	1170	1230	60	60	1230	111	111	123	111	111	586	514	.021	CN	Corn
CG		18	1170		18	18		105	105	117	105	105			.010	CG	o. Coarse Gr.
RI		73	1170		73	73		320	320	640	320	320			.014	RI	Rice
SB	52	1326	-1274	4	40	40	4	275	275	289	275	275	13	469	.040	SB	Soybeans
SM	12	50	-38	2	8	8	2	247	247	309	247	247	5	43	.040	SM	SoyMeal
SO	655	406	249	257	915	915	257	431	431	862	431	431	413	284	.020	SO	SoyOil
OS	457	1174	-717	198	90	90	198	630	630	700	630	630	91	293	.020	OS	O. oilSeeds
OM	194	165	29	119	2	2	119	200	200	250	200	200	150	255	.020	OM	O. Meals
OO		2	-2	298	1	1	298	774	774	1548	774	774	7	7	.016	OO	Other Oils
CT		2	207	2	1	1	2	1674	1674	3348	1674	1674	155	143	.019	CT	Cotton
SU	550	253	207	298	1	1	298	282	282	564	282	282			.016	SU	Sugar (rfind.)
TB		15	-15		16	16		3844	3844	7688	3844	3844			.016	TB	Tobacco

DN	1989	Prod. SUPPLY	Cons. DEMAND	P-CE-1 INTRADE	Quantity Data (1000 MT)	Imports	Exports	World	Base Price Data	Consumer	Trade share C.	Producer	Base Values (M. US\$)	Proj. Cons. G. Exp.	Projection parameters	Product definition and mnemonic	Trade D. M US\$ VTD\$
BF	205	86	119	842	29	14	842	2567	2567	4667	2567	2567	526	401	.012	BF	Beef & veal
PK	1165	337	828	71	3	3	71	2321	2321	4642	2321	2321	5	23	.012	PK	Pork
ML	128	63	5	71	6	6	71	2321	2321	4642	2321	2321	5	23	.012	ML	Mutton & Lamb
PM	85	4747	65	2	7	7	2	1039	1039	1889	1039	1039	133	119	.020	PM	Poultry Meat
PE	4747	83	65	2	7	7	2	1696	1696	2827	1696	1696	145	235	.009	PE	Poultry Eggs
DM	92	52	201	40	15	15	40	272	272	3544	272	272	1291	2582	.011	DM	Dairy - fluid Milk
DB	275	74	201	216	15	15	216	2866	2866	3582	2866	2866	264	186	.011	DB	Dairy - Butter
DC	275	74	201	216	15	15	216	3009	3009	4309	3009	3009	827	318	.011	DC	Dairy - Cheese
DP	13	15	1033	4	7	7	4	2326	2326	2907	2326	2326	30	44	.011	DP	Dairy - Powder
WH	3224	2191	1033	1040	40	40	1040	169	169	241	169	169	545	529	.019	WH	Wheat
CN	5578	4408	1170	1230	60	60	1230	111	111	123	111	111	586	514	.021	CN	Corn
CG		18	1170		18	18		105	105	117	105	105			.010	CG	o. Coarse Gr.
RI		73	1170		73	73		320	320	640	320	320			.014	RI	Rice
SB	52	1326	-1274	4	40	40	4	275	275	289	275	275	13	469	.040	SB	Soybeans
SM	12	50	-38	2	8	8	2	247	247	309	247	247	5	43	.040	SM	SoyMeal
SO	655	406	249	257	915	915	257	431	431	862	431	431	413	284	.020	SO	SoyOil
OS	457	1174	-717	198	90	90	198	630	630	700	630	630	91	293	.020	OS	O. oilSeeds
OM	194	165	29	119	2	2	119	200	200	250	200	200	150	255	.020	OM	O. Meals
OO		2	-2	298	1	1	298	774	774	1548	774	774	7	7	.016	OO	Other Oils
CT		2	207	2	1	1	2	1674	1674	3348	1674	1674	155	143	.019	CT	Cotton
SU	550	253	207	298	1	1	298	282	282	564	282	282			.016	SU	Sugar (rfind.)
TB		15	-15		16	16		3844	3844	7688	3844	3844			.016	TB	Tobacco

Summary of support (%)	Support Measures	Value share of -Prod.	-Cons.	Share of -Source- Agric. Support	Summary of base information:	Million US \$
Meat & eggs	CSE	43.3	28.0	Production Value	Production Value	7714
Dairy	CSE	31.3	39.1	Market Value	Market Value	7714
Food crops	CSE	7.1	6.8	Consumption Value	Consumption Value	8007
Feed crops	CSE	7.6	6.5	Government Expenditures	Government Expenditures	
Oilseeds, prod.	CSE	8.7	16.3	Producer Support	Producer Support	
Other crops	CSE	2.0	3.3	Consumer Transfer	Consumer Transfer	
Animal Products	CSE	74.6	67.1	Total TDS Estimate	Total TDS Estimate	0
Crops, oilseeds	CSE	25.4	32.9			
All products	CSE	100.0	100.0	Last update	Last update	2/12/92
	CSE			Date printed	Date printed	2/12/92



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IT	Prod. SUPPLY	Base Quantity Data (1000 MT)	World	Base Price Data	Consumer	Trade share C	Producer	Base Values (M. US\$)	Projection parameters	Product definition and immanic	Trade D.
1989		Cons. DEMAND	Exports EXPORTS	Imports IMPORTS	World PRICE	Market PRICE	Consumer PRICE	Prod. BP VALUE	G. Exp. & Price Trans. Elast.		
BF	1140	1535	395	78	473	2567	2567	2926	.012	Beef & veal	
PK	1295	1762	-467	37	504	2176	2176	2818	.017	Pork	
ML	80	102	-22	3	25	2321	2321	186	.012	Mutton & Lamb	
PM	1025	1050	-25	20	45	1039	1039	1065	.020	Poultry Meat	
PE	679	745	-66	3	69	1696	1696	1152	.009	Poultry, Eggs	
DM	12202	12202	-34	12	46	272	272	3319	.011	Dairy - fluid Milk	
D8	74	108	-231	70	301	2866	2866	212	.011	Dairy - Butter	
DC	760	991	-172	12	172	3009	3009	2287	.011	Dairy - Cheese	
DP	7413	9813	-2400	2700	5100	2326	2326	500	.011	Dairy - Powder	
WH	6359	7159	-800	150	172	169	169	1253	.019	Wheat	
CH	2100	2838	-738	495	738	111	111	706	.021	Corn	
CG	921	430	491	4	320	105	105	221	.010	C. Coarse Gr.	
RI	1624	2334	-710	1	275	320	320	295	.014	Rice	
SB	1666	3026	-1360	49	711	275	275	447	.040	Soybeans	
SM	336	271	65	71	1409	247	247	412	.040	SoyMeal	
SO	382	669	-287	33	287	431	431	145	.040	SoyOil	
OS	366	769	-403	209	436	630	630	241	.020	O. oilSeeds	
OM	798	1226	-428	209	637	200	200	192	.020	O. Meals	
OD	1609	1603	-294	126	294	774	774	618	.016	Other Oils	
CT	168	102	66	127	61	1674	1674	454	.019	Cotton	
SU						282	282	646	.016	Sugar (rfind.)	
TB						3844	3844			Tobacco	

IT	Prod. SUPPLY	Base Quantity Data (1000 MT)	World	Base Price Data	Consumer	Trade share C	Producer	Base Values (M. US\$)	Projection parameters	Product definition and immanic	Trade D.
1989											
BF	1140	1535	395	78	473	2567	2567	2926	.012	Beef & veal	
PK	1295	1762	-467	37	504	2176	2176	2818	.017	Pork	
ML	80	102	-22	3	25	2321	2321	186	.012	Mutton & Lamb	
PM	1025	1050	-25	20	45	1039	1039	1065	.020	Poultry Meat	
PE	679	745	-66	3	69	1696	1696	1152	.009	Poultry, Eggs	
DM	12202	12202	-34	12	46	272	272	3319	.011	Dairy - fluid Milk	
D8	74	108	-231	70	301	2866	2866	212	.011	Dairy - Butter	
DC	760	991	-172	12	172	3009	3009	2287	.011	Dairy - Cheese	
DP	7413	9813	-2400	2700	5100	2326	2326	500	.011	Dairy - Powder	
WH	6359	7159	-800	150	172	169	169	1253	.019	Wheat	
CH	2100	2838	-738	495	738	111	111	706	.021	Corn	
CG	921	430	491	4	320	105	105	221	.010	C. Coarse Gr.	
RI	1624	2334	-710	1	275	320	320	295	.014	Rice	
SB	1666	3026	-1360	49	711	275	275	447	.040	Soybeans	
SM	336	271	65	71	1409	247	247	412	.040	SoyMeal	
SO	382	669	-287	33	287	431	431	145	.040	SoyOil	
OS	366	769	-403	209	436	630	630	241	.020	O. oilSeeds	
OM	798	1226	-428	209	637	200	200	192	.020	O. Meals	
OD	1609	1603	-294	126	294	774	774	618	.016	Other Oils	
CT	168	102	66	127	61	1674	1674	454	.019	Cotton	
SU						282	282	646	.016	Sugar (rfind.)	
TB						3844	3844			Tobacco	

Summary of support (%)	Support Measures	Value share of -Prod.	Share of -Prod.	Source-Prod.	Summary of base information:	Million US \$	Base model spreadsheet	Exchange rates in:	Base data
Meat & eggs		41.8	46.1		Production Value	19473	Base model spreadsheet	Model spreadsheet	Base data
Dairy		29.9	28.0		Market Value	19473	Support spreadsheet	Support spreadsheet	
Food crops		7.9	6.3		Consumption Value	42112	Import Export	Model spreadsheet	
Feed crops		4.8	2.9		Government Expenditures		MS	Support spreadsheet	
Oilseeds, prod.		9.9	10.5		Producer Support		CSE	Currency unit per US\$	
Other crops		5.6	6.3		Consumer Transfer		PSSE	Base year	
Animal Products		71.7	74.0		Total TDS Estimate	0	ERSE	1989	
Crops, oilseeds		28.3	26.0						
All products		100.0	100.0		Last update				
					Date printed				







NT	1989	Product Supply	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Producer Trade share C.	Base Values (M. US\$)	Projection parameters & Price Trans. Elast.	Product definition and mnemonic:	Trade D. M US\$ VTDX
		Prod. Supply	Imports Exports	World Market Price	Market Price	Prod. Share	Base Value	Prod. Share	Trade D. M US\$ VTDX
		485 1636 13 491 645 11903	324 1027 6 340 483	2567 2176 2321 1039 1696 272	2567 2176 2321 1039 1696 272	55 50 50 55 50 50	1245 3560 30 510 1094 3238	BF PK ML PM PE DM DB DC DP LH CN CG RI SB SM SO OS OH OO CT SU TB	Beef & veal Pork Mutton & Lamb Poultry Meat Poultry, Eggs Dairy - fluid Milk Dairy - Butter Dairy - Cheese Wheat Corn o. Coarse Gr. Rice Soybeans SoyMeal SoyOil o. oilseeds o. Meals Other Oils Cotton Sugar (rfind.) Tobacco
		229 657 11 227 200 11903	324 1027 6 340 483	2567 2176 2321 1039 1696 272	2567 2176 2321 1039 1696 272	55 50 50 55 50 50	1245 3560 30 510 1094 3238	BF PK ML PM PE DM DB DC DP LH CN CG RI SB SM SO OS OH OO CT SU TB	Beef & veal Pork Mutton & Lamb Poultry Meat Poultry, Eggs Dairy - fluid Milk Dairy - Butter Dairy - Cheese Wheat Corn o. Coarse Gr. Rice Soybeans SoyMeal SoyOil o. oilseeds o. Meals Other Oils Cotton Sugar (rfind.) Tobacco

NT	1989	Product Supply	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Producer Trade share C.	Base Values (M. US\$)	Projection parameters & Price Trans. Elast.	Product definition and mnemonic:	Trade D. M US\$ VTDX
		Prod. Supply	Imports Exports	World Market Price	Market Price	Prod. Share	Base Value	Prod. Share	Trade D. M US\$ VTDX
		485 1636 13 491 645 11903	324 1027 6 340 483	2567 2176 2321 1039 1696 272	2567 2176 2321 1039 1696 272	55 50 50 55 50 50	1245 3560 30 510 1094 3238	BF PK ML PM PE DM DB DC DP LH CN CG RI SB SM SO OS OH OO CT SU TB	Beef & veal Pork Mutton & Lamb Poultry Meat Poultry, Eggs Dairy - fluid Milk Dairy - Butter Dairy - Cheese Wheat Corn o. Coarse Gr. Rice Soybeans SoyMeal SoyOil o. oilseeds o. Meals Other Oils Cotton Sugar (rfind.) Tobacco
		229 657 11 227 200 11903	324 1027 6 340 483	2567 2176 2321 1039 1696 272	2567 2176 2321 1039 1696 272	55 50 50 55 50 50	1245 3560 30 510 1094 3238	BF PK ML PM PE DM DB DC DP LH CN CG RI SB SM SO OS OH OO CT SU TB	Beef & veal Pork Mutton & Lamb Poultry Meat Poultry, Eggs Dairy - fluid Milk Dairy - Butter Dairy - Cheese Wheat Corn o. Coarse Gr. Rice Soybeans SoyMeal SoyOil o. oilseeds o. Meals Other Oils Cotton Sugar (rfind.) Tobacco

Summary of support (%)	Value share of -Prod.	Share of -Source	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	Base year
Meat & eggs	46.6	26.4	Production Value	13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year
Dairy crops	40.9	42.6	Market Value	13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year
Food crops	1.3	2.8	Consumption Value	13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year
Feed crops	1.3	2.8	Government Expenditures	13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year
Oilseeds, prod.	8.8	21.0	Producer Support	13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year
Other crops	2.2	5.2	Consumer Transfer	13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year
Animal Products	87.5	69.0	Total TDS Estimate	13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year
Crops, oilseeds	12.5	31.0		13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year
All products	100.0	100.0		13821	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	1989	Base data	Base year







SP	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Trade share C. TORICE	Producer PRSHARE	Prod. B-VALUE	Base Values (M. US\$)	Projection parameters G. Exp. & Price Trans. ELIAS	Product definition and nomenclature	Trade D. M US\$ VIDS
			Cons. DEMAND	P-C-E-I NTRADE	Exports EXPORTS	Imports IMPORTS	World MPRICE	Market MPRICE	Consumer PRPRICE	Consumer OMRPRICE	
BF	451	1722	455	-4	40	44	2567	2567	2567	4667	2567
PK	1722	1785	1785	-63	4	67	2176	2176	2176	4352	2176
ML	231	240	240	-9	7	16	2321	2321	2321	4642	2321
PM	851	895	895	-64	6	70	1039	1039	1039	1886	1039
PE	614	6209	6209	-27	2	29	1696	1696	1696	2827	1696
DM	30	10	10	20	25	5	272	272	272	544	272
DB	123	157	157	-34	13	40	2866	2866	2866	3582	2866
DC	31	30	30	1	13	12	3009	3009	3009	4299	3009
DP	5200	4925	4925	-1740	475	200	2326	2326	2326	2907	2326
WH	3100	4840	4840	-1740	160	1900	169	169	169	241	169
CH	10025	9065	9065	-1740	1235	105	111	111	111	123	111
CG	238	222	222	16	136	120	105	105	105	117	105
RI	2873	2873	2873	-2846	5	2846	320	320	320	640	320
SB	1920	3266	3266	-1346	247	1351	275	275	275	289	275
SM	408	1173	1173	-235	242	7	431	431	431	862	431
SO	1049	1173	1173	-124	11	135	630	630	630	700	630
OS	519	692	692	-173	26	199	200	200	200	250	200
OM	981	844	844	-137	275	138	774	774	774	1548	774
OO	62	156	156	-94	22	116	1674	1674	1674	3348	1674
CT	1290	1322	1322	-32	125	157	282	282	282	564	282
SU	37	91	91	-54	14	68	3844	3844	3844	7688	3844
TB											

SP	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Trade share C. TORICE	Producer PRSHARE	Prod. B-VALUE	Base Values (M. US\$)	Projection parameters G. Exp. & Price Trans. ELIAS	Product definition and nomenclature	Trade D. M US\$ VIDS
			Cons. DEMAND	P-C-E-I NTRADE	Exports EXPORTS	Imports IMPORTS	World MPRICE	Market MPRICE	Consumer PRPRICE	Consumer OMRPRICE	
BF	451	1722	455	-4	40	44	2567	2567	2567	4667	2567
PK	1722	1785	1785	-63	4	67	2176	2176	2176	4352	2176
ML	231	240	240	-9	7	16	2321	2321	2321	4642	2321
PM	851	895	895	-64	6	70	1039	1039	1039	1886	1039
PE	614	6209	6209	-27	2	29	1696	1696	1696	2827	1696
DM	30	10	10	20	25	5	272	272	272	544	272
DB	123	157	157	-34	13	40	2866	2866	2866	3582	2866
DC	31	30	30	1	13	12	3009	3009	3009	4299	3009
DP	5200	4925	4925	-1740	475	200	2326	2326	2326	2907	2326
WH	3100	4840	4840	-1740	160	1900	169	169	169	241	169
CH	10025	9065	9065	-1740	1235	105	111	111	111	123	111
CG	238	222	222	16	136	120	105	105	105	117	105
RI	2873	2873	2873	-2846	5	2846	320	320	320	640	320
SB	1920	3266	3266	-1346	247	1351	275	275	275	289	275
SM	408	1173	1173	-235	242	7	431	431	431	862	431
SO	1049	1173	1173	-124	11	135	630	630	630	700	630
OS	519	692	692	-173	26	199	200	200	200	250	200
OM	981	844	844	-137	275	138	774	774	774	1548	774
OO	62	156	156	-94	22	116	1674	1674	1674	3348	1674
CT	1290	1322	1322	-32	125	157	282	282	282	564	282
SU	37	91	91	-54	14	68	3844	3844	3844	7688	3844
TB											

Summary of support (%)	Support Measures PSE	Value share of -Prod. -Cons.	Share of -Source- Produc. Support	Summary of base information:	Million US \$	Base model spreadsheet Support spreadsheet	EU896SP EU895SP
Meat & eggs	50.0	52.0	52.0	Production Value	14705	Exchange rates in:	1
Dairy	15.1	15.0	15.0	Market Value	14705	Model spreadsheet	1
Feed crops	6.5	4.8	4.8	Consumption Value	27926	Support spreadsheet	1
Oilseeds, prod.	9.5	5.9	5.9	Government Expenditures		Currency unit per US\$	0
Other crops	14.8	15.4	15.4	Producer Support		Base year	1989
	4.1	7.0	7.0	Consumer Transfer			
Animal Products	65.0	66.9	66.9	Total TDS Estimate	0		
Crops, oilseeds	35.0	33.1	33.1				
All products	100.0	100.0	100.0	Last update date printed	2/12/92	Base data	EU896SP

[illegible]

Demand Elasticity Matrix for --> EUROBUK																					1989	DEMAND ELASTICITIES										Row		S-D	Product definition and mnemonic:
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SN	SO	OS	CM	CO	CT	SU	TB	Sum	Sum												
BF	-.70	-.20	.01	.02																		1.02	1.02	BF	Beef and veal										
PK	.18	-.80	.02	.03																		-.57	1.11	PK	Pork										
ML	.02	.07	-.90	.10																		-.72	1.25	ML	Mutton and Lamb										
PM	.05	.09	.09	-.90	-.20																	-.66	1.01	PM	Poultry Meat										
PE						-.12	.02															-.20	.70	PE	Poultry, Eggs										
DM						-.43	.01															-.08	.69	DM	Dairy - fluid Milk										
DB							-.40	.01														-.42	.47	DB	Dairy - Butter										
DC						.03	.05	-.40														-.40	.45	DC	Dairy - Cheese										
DP									-.78	.07	.24						.03					-.32	.37	DP	Dairy - milk Powder										
WH									.99	-1.74	.31	.01				.10	.69					-.40	.69	WH	Wheat										
CN									.82	.07	-1.59	-.50				.08	.10					-.22	.45	CN	Corn										
CG									.18								.08					-.52	.71	CG	other Coarse Grains										
RI																						-.32	.67	RI	Rice										
SB									.17	.05	.17	-.32	.19		.07		.09					-.06	.36	SB	Soybeans										
SM													-1.26									-.77	.82	SM	SoyMeal										
SO														-.59			.40					-.19	.24	SO	SoyOil										
OS															-.16	.03	.08					-.05	.56	OS	Other oilSeeds										
OM									.21	.05	.16		.11		.03	-1.31	-.56					-.78	.83	OM	Other Meals										
CO																		-.52				-.53	.38	CO	Other Oils										
CT																			-.52			-.52	.66	CT	Cotton										
SU																				-.50		-.50	.60	SU	Sugar (refined)										
TB																						-.50	.70	TB	Tobacco										

[illegible]



UK	1989	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	ON	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB
-----Base Quantity Data (1000 MT)-----		Prod. SUPPLY		Cons. DEMAND		P-C-E-I		NTRADE		Imports		Exports		Imports		Exports		Imports		Exports		Imports	
		980	1201	-221	154	375	2567	2176	2567	2176	2567	2176	2567	2176	2567	2176	2567	2176	2567	2176	2567	2176	2567
		978	1460	-482	58	540	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321	2321
		368	397	-29	89	118	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039
		1070	1090	-20	64	84	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696	1696
		743	768	-25	25	50	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272
		14647	14647	-52	65	117	2866	2866	2866	2866	2866	2866	2866	2866	2866	2866	2866	2866	2866	2866	2866	2866	2866
		130	182	-143	36	179	3009	3009	3009	3009	3009	3009	3009	3009	3009	3009	3009	3009	3009	3009	3009	3009	3009
		280	423	68	81	16	2326	2326	2326	2326	2326	2326	2326	2326	2326	2326	2326	2326	2326	2326	2326	2326	2326
		133	11130	2900	3700	800	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169
		14030	1535	-1535	2210	1535	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
		8656	6771	-1885	2210	325	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
			230	-230	10	240	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320
			750	-750	5	750	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275
		448	1499	-1051	5	1056	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247
		100	185	-85	5	90	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431	431
		983	1426	-443	90	533	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
		745	1544	-799	36	835	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
		507	1202	-695	46	741	774	774	774	774	774	774	774	774	774	774	774	774	774	774	774	774	774
			37	-37	2	39	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674
		1417	2480	-1063	366	1429	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282
			107	-107	7	114	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844

UK	1989	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	ON	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB
-----Model Price Wedges (US \$/MT)-----		DPSM		CSM		ESM		MSM		DPSM		CSM		ESM		MSM		DPSM		CSM		ESM	
		1417	2480	-1063	366	1429	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282
			107	-107	7	114	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844

Summary of support (%)	Support Measures	Value share of -Prod.	Share of -Source-Prod. Support	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data
Meat & eggs	PSE	42.8	46.3	Production Value	18372	Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data
Dairy	CSE	30.0	27.3	Market Value	18372	Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data
Food crops		12.9	7.3	Consumption Value	38911	Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data
Feed crops		4.9	2.5	Government Expenditures		Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data
Oilseeds, prod.		7.2	10.5	Producer Support		Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data
Other crops		2.2	6.0	Consumer Transfer		Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data
Animal Products		72.8	73.7	Total TDS Estimate	0	Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data
Crops, oilseeds		27.2	26.3	Last update	2/12/92	Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data
ALL products		100.0	100.0	Date printed	2/12/92	Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US\$	1989	Base data





Supply Elasticity Matrix for --> EUB96GD															1989															SUPPLY ELASTICITIES															Self Suffic. Ratio															Value (Million US\$) of Production															Exports																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

Demand Elasticity Matrix for --> EUB96CD													DEMAND ELASTICITIES													1989		Product definition and mnemonic:																		
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row	S-D	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Product definition and mnemonic:
BF	-.40	.06																				Sum	-.34	-.46	Beef and veal																					
PK	.02	-.50																				Sum	-.47	-.70	Pork																					
ML		-.28																				Sum	-.62	-.43	Mutton and Lamb																					
PM																						Sum	-.17	-.24	Poultry Meat																					
PE			-.25																			Sum	-.08	-.30	Poultry, Eggs																					
DM				-.10			.03															Sum	-.20	-.20	Dairy - fluid Milk																					
DB					-.15																	Sum	-.15	-.21	Dairy - Butter																					
DC						-.15																Sum	-.40	-.45	Dairy - Cheese																					
DP							-.16															Sum	-.30	-.54	Dairy - milk Powder																					
WH								-.40														Sum	-.34	-.69	Wheat																					
CN									-.41	.01	.09											Sum	-.32	-.64	Corn																					
CG									.06	-.63	.17											Sum	-.01	-.01	other Coarse Grains																					
RI									.08	.02	-.46											Sum	-.35	-.35	Rice																					
SB												-.15										Sum	-.05	-.40	Soybeans																					
SM									.03	.02	.09		-.40									Sum	-.35	-.40	SoyMeal																					
SO														-.40				.10				Sum	-.30	-.35	SoyOil																					
OS															-.17		.03	.09				Sum	-.05	-.27	Other oilSeeds																					
OM																-.53						Sum	-.37	-.42	Other Meals																					
OO																	-.15					Sum	-.14	-.19	Other Oils																					
CT																		-.15				Sum	-.15	-.30	Cotton																					
SU																				-.30		Sum	-.45	-.45	Sugar (refined)																					
TB																					-.35	Sum	-.35	-.35	Tobacco																					

Shares of Product Going to Intermediate Demand for --> EU89d3d														Date printed		
Supply-->														Last update		
DM	SF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SSD	SCD	SCM	Row Sum	Final Dem. Share	Final Dem. Elas.
						.37		.32	.06					.75	.25	-.20
WM	.08	.27		.03	.07	.17								.62	.38	-.20
CM	.12	.36		.04	.08	.24								.84	.16	-.20
CG	.09	.34		.03	.09	.19								.74	.26	-.20
SB										.82	.18			1.00		-.40
SM	.06	.55		.04	.09	.11								.85	.15	-.20
OS														1.00		-.17
CM	.07	.64		.05	.11	.12				.59	.41			.99	.01	-.20

Feed Ratios (Total feed/animal prod.)														Date printed		
Base year ----->														Last update		
SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SSD	SCD	SCM	Row Sum	Final Dem. Share	Final Dem. Elas.	
2.89	3.59	2.33	2.83	3.32	.33									.75	.25	-.20
..feed mix percent by animal product.																
SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SSD	SCD	SCM	Row Sum <th>Final Dem. Share</th> <th>Final Dem. Elas.</th>	Final Dem. Share	Final Dem. Elas.	
23	19	25	23	20	23									.75	.25	-.20
11	8	11	10	7	10									.62	.38	-.20
59	56	57	53	60	60									.84	.16	-.20
5	12	5	9	8	5									.74	.26	-.20
2	5	2	4	4	2									1.00		-.40
..Estimated protein percentage..																
SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SSD	SCD	SCM	Row Sum <th>Final Dem. Share</th> <th>Final Dem. Elas.</th>	Final Dem. Share	Final Dem. Elas.	
13.5	16.6	13.3	15.5	14.9	13.2									.75	.25	-.20
Av. meal/grain price ratio = 1.97																
Av. feed protein percent = 15.2																

Elasticities for -->														Date printed		
Base year ----->														Last update		
SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SDM	SSD	SCD	SCM	Row Sum	Final Dem. Share	Final Dem. Elas.	
2.89	3.59	2.33	2.83	3.32	.33									.75	.25	-.20
Exchange rate (LC/US\$)																
Transmission elast.																
Income growth rate																
Population growth rate																
Income (Million US\$)																
Population (1000)																
Per Capita Income (\$)																
Model spreadsheet ---->																

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Demand Elasticity Matrix for --> EUB9BAT																							1989											DEMAND ELASTICITIES											Product definition and mnemonic:										
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	CT	SU	TB	Row	S-D	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	CT	SU	TB												
-.70	-.18																				Sum	1.12	Beef and veal																																
-.14	-.60																				Sum	1.85	Pork																																
		-.47																			Sum	1.02	Mutton and Lamb																																
			-.65																		Sum	.96	Poultry Meat																																
				-.35																	Sum	.73	Eggs																																
					-.09																Sum	.70	Dairy - fluid Milk																																
						-.45															Sum	.50	Dairy - Butter																																
							-.48														Sum	.53	Dairy - Cheese																																
								-.40													Sum	.45	Dairy - milk Powder																																
									-.32												Sum	.18	Wheat																																
										-.05											Sum	.56	Corn																																
											-.08										Sum	.45	other Coarse Grains																																
												-.44									Sum	.53	Rice																																
													-.49								Sum	.64	Soybeans																																
														-.73							Sum	.32	SoyMeal																																
															-.45						Sum	.30	SoyOil																																
																-.22					Sum	.35	Other oilSeeds																																
																	-.73				Sum	.23	Other Meals																																
																		-.50			Sum	.53	Other Oils																																
																			-.20		Sum	.40	Cotton																																
																				-.29	Sum	.74	Sugar (refined)																																
																					Sum	.70	Tobacco																																

Shares of Product Going to Intermediate Demand for --> EU89aAT													Date printed		
Supply-->													Last Update		
DM	SF	SPX	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSO	SDO	Row	Final Dem. Share	Final Dem. Elas.
							.19	.40	.10				.69	.31	-.10
WH	.07	.13		.02	.03	.12							.37	.63	-.10
CH	.18	.32		.05	.07	.31							.03	.07	-.10
CG	.15	.28		.05	.07	.22							.75	.25	-.10
SB															
SM	.10	.57		.07	.09	.16				.05	.05		.10	.90	-.49
OS													.99	.01	-.10
CM	.10	.55		.08	.10	.16					.57	.41	.98	.02	-.22
													.99	.01	-.10

Feed Ratios (Total feed/animal prod.)													Date printed		
Base year ----->													Last Update		
SF	SPX	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSO	SDO	Row	Final Dem. Share	Final Dem. Elas.	
2.82	3.42	2.36	2.90	2.94	.31										
..Feed mix percent by animal product.															
SF	SPX	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSO	SDO				
12	10	22	10	10	12	44									
40	31	28	31	31	41	CM									
39	36	38	41	41	38	CG									
8	19	10	15	14	7	SM									
2	4	2	4	3	2	DM									
..Estimated protein percentage..															
SF	SPX	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSO	SDO				
13.5	18.1	14.4	16.7	16.2	13.3										
Av. meal/grain price ratio = 1.38															
Av. feed protein percent = 15.7															

Elasticities for -->													Date printed	
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AT	1989	Prod. SUPPLY	Cons. DEMAND	Base Quantity Data (1000 MT)	Imports	Exports	Trade share C. PRSHARE	Base Price Data	World Price	Market Price	Consumer Price	Producer Price	Trade share C. PRSHARE	Base Values (M. US\$)	Prod. Cons. G. Exp. GAIN\$	Supp. Values (M. US\$)	Prod. Cons. G. Exp. GAIN\$	Projection Parameters	Product definition and immanic:	Trade D. M US\$ VTD\$
1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989
BF	213	167	46	3	3818	3692	1901	6713	3744	1523	1523	1523	1523	1121	115	115	115	115	BF	227
PK	404	399	5	1	2176	1872	1881	3744	4642	2321	2321	2321	2321	1494	6	6	6	6	PK	200
ML	75	92	-1	1	2321	2321	2321	4642	1663	2321	2321	2321	2321	14	14	14	14	14	ML	50
PM	103	124	-21	17	1039	1663	1671	3023	1663	725	725	725	725	278	-15	-15	-15	-15	PM	38
PE	3318	3318	3318	21	1696	1431	1439	2336	2336	679	679	679	679	295	-34	-34	-34	-34	PE	5
DM	41	39	2	10	272	347	354	691	691	183	183	183	183	2293	1	1	1	1	DM	11
DC	88	63	25	12	2866	586	586	683	683	287	287	287	287	24	11	11	11	11	DC	77
DP	21	9	12	10	3009	615	615	475	475	303	303	303	303	54	15	15	15	15	DP	133
WH	1363	1044	319	18	169	281	281	392	392	168	168	168	168	409	2	2	2	2	WH	1
ON	1491	1337	154	10	111	228	228	123	123	145	145	145	145	165	2	2	2	2	ON	1
CG	2155	1782	373	57	105	228	228	251	251	320	320	320	320	446	2	2	2	2	CG	1
RI	57	57	-57	4	320	320	320	269	269	275	275	275	275	36	2	2	2	2	RI	1
SB	10	14	-45	4	275	275	275	309	309	247	247	247	247	44	2	2	2	2	SB	1
SM	169	22	-22	22	431	431	431	862	862	431	431	431	431	19	2	2	2	2	SM	1
OS	52	115	-46	17	630	630	630	700	700	630	630	630	630	80	2	2	2	2	OS	1
OM	38	98	-77	46	200	200	200	250	250	200	200	200	200	24	2	2	2	2	OM	1
CO	358	25	-25	26	1674	1674	1674	1548	1548	774	774	774	774	178	2	2	2	2	CO	1
CU	358	356	22	1	1674	1674	1674	3348	3348	1674	1674	1674	1674	84	2	2	2	2	CU	1
TB	358	356	22	2	3844	3844	3844	7688	7688	3844	3844	3844	3844	69	2	2	2	2	TB	1

AT	1989	Prod. SUPPLY	Cons. DEMAND	Base Quantity Data (1000 MT)	Imports	Exports	Trade share C. PRSHARE	Base Price Data	World Price	Market Price	Consumer Price	Producer Price	Trade share C. PRSHARE	Base Values (M. US\$)	Prod. Cons. G. Exp. GAIN\$	Supp. Values (M. US\$)	Prod. Cons. G. Exp. GAIN\$	Projection Parameters	Product definition and immanic:	Trade D. M US\$ VTD\$
1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989
BF	213	167	46	3	3818	3692	1901	6713	3744	1523	1523	1523	1523	1121	115	115	115	115	BF	227
PK	404	399	5	1	2176	1872	1881	3744	4642	2321	2321	2321	2321	1494	6	6	6	6	PK	200
ML	75	92	-1	1	2321	2321	2321	4642	1663	2321	2321	2321	2321	14	14	14	14	14	ML	50
PM	103	124	-21	17	1039	1663	1671	3023	1663	725	725	725	725	278	-15	-15	-15	-15	PM	38
PE	3318	3318	3318	21	1696	1431	1439	2336	2336	679	679	679	679	295	-34	-34	-34	-34	PE	5
DM	41	39	2	10	272	347	354	691	691	183	183	183	183	2293	1	1	1	1	DM	11
DC	88	63	25	12	2866	586	586	683	683	287	287	287	287	24	11	11	11	11	DC	77
DP	21	9	12	10	3009	615	615	475	475	303	303	303	303	54	15	15	15	15	DP	133
WH	1363	1044	319	18	169	281	281	392	392	168	168	168	168	409	2	2	2	2	WH	1
ON	1491	1337	154	10	111	228	228	123	123	145	145	145	145	165	2	2	2	2	ON	1
CG	2155	1782	373	57	105	228	228	251	251	320	320	320	320	446	2	2	2	2	CG	1
RI	57	57	-57	4	320	320	320	269	269	275	275	275	275	36	2	2	2	2	RI	1
SB	10	14	-45	4	275	275	275	309	309	247	247	247	247	44	2	2	2	2	SB	1
SM	169	22	-22	22	431	431	431	862	862	431	431	431	431	19	2	2	2	2	SM	1
OS	52	115	-46	17	630	630	630	700	700	630	630	630	630	80	2	2	2	2	OS	1
OM	38	98	-77	46	200	200	200	250	250	200	200	200	200	24	2	2	2	2	OM	1
CO	358	25	-25	26	1674	1674	1674	1548	1548	774	774	774	774	178	2	2	2	2	CO	1
CU	358	356	22	1	1674	1674	1674	3348	3348	1674	1674	1674	1674	84	2	2	2	2	CU	1
TB	358	356	22	2	3844	3844	3844	7688	7688	3844	3844	3844	3844	69	2	2	2	2	TB	1

Summary of support (%)	Support Measures	Value share of -Prod. -Cons.	Share of -Prod. -Cons.	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	EU89BAT
Meat & eggs	37.8	41.5	42.8	44.2	118.5	Production Value	4289	Model spreadsheet	4381	Support spreadsheet	76	1989	Base data	EU89BAT
Dairy	45.5	28.3	31.7	34.4	25.4	Market Value	7490	Consumption Value	7490	Government Expenditures	1586	1989	Base data	EU89BAT
Food crops	34.8	8.7	5.9	7.7	2.5	Producer Support	1586	Producer Support	1586	Consumer Transfer	-1520	1989	Base data	EU89BAT
Feed crops	23.5	15.0	8.2	9.0	2.5	Consumer Transfer	762	Total TDS Estimate	762				Base data	EU89BAT
Oilseeds, prod.	62.2	3.1	5.4	4.6	-15.1								Base data	EU89BAT
Other crops	20.9	69.8	74.5	78.6	93.2								Base data	EU89BAT
Animal Products	40.9	30.2	25.5	21.4	6.8								Base data	EU89BAT
Crops, oilseeds	28.1	100.0	100.0	100.0	100.0								Base data	EU89BAT
All products	36.2	100.0	100.0	100.0	100.0								Base data	EU89BAT



FN	1989	Prod. SUPPLY	Cons. DEMAND	P-E-I	Exports	Imports	World	Base Price Data	Trade share C.	Producer	Base	Values (M. US\$)	Projection parameters	Product definition and mnemonic:	Trade D. M US\$ VTDS
BF	107	103	4	13	6	2	2567	6577	1919	55	872	1232	196	BF	208
PK	173	160	1	1	14	1	2176	4072	1530	50	780	1302	112	PK	302
ML	31	31	1	1			2321	6261	1530	50	10	13	3	ML	3
PM	31	31	1	1			1039	9759	2078	55	76	147	11	PM	8
PE	78	58	20	20	20		1666	2436	2078	55	228	213	85	PE	47
DM	2741	2741	20	20	20		272	2194	742	50	2106	3431	410	DM	11
DB	63	42	21	21	21		2866	633	218	50	76	63	19	DB	15
DC	78	58	20	20	20	2	3009	1204	312	80	99	105	21	DC	3
DP	26	24	2	2	2	29	2326	1264	328	80	25	29	1	DP	75
WH	507	511	-4	-4	25	8	169	977	253	70	325	441	1	WH	377
CG	3293	2754	8	539	546	7	111	193	184	90	1469	2	256	CG	
ON	20	20	-20	-151		20	105	420	115	50		17		ON	
RI	131	131				131	320	434	434	50		39		RI	
SB	103	103					275	285	285	95		32		SB	
SM	20	18	2				247	247	247	80	25	9		SM	
SO	120	133	-13	-13	2	13	431	431	431	50	125	145	-1	SO	33
OS	75	119	-44	-44		16	630	979	1045	90	15	30		OS	
OM	42	52	-10	-10	6	16	200	200	200	80	33	80		OM	
CO	154	242	-88	-88	7	11	774	774	774	50	122	37	-29	CO	30
CT						95	1674	1674	1674	50		359		CT	
SU						3	282	742	355	50		23		SU	
TB							3844	3844	3844	50				TB	

FN	1989	Prod. SUPPLY	Cons. DEMAND	P-E-I	Exports	Imports	World	Base Price Data	Trade share C.	Producer	Base	Values (M. US\$)	Projection parameters	Product definition and mnemonic:	Trade D. M US\$ VTDS
BF	1571	4658	6	2542	1571	1571	4658	2542	1571	1571	1571	4658	2542	1571	1571
PK	439	439	6	2542	439	439	439	439	439	439	439	439	439	439	439
ML	358	358			358	358	358	358	358	358	358	358	358	358	358
PM	727	727			727	727	727	727	727	727	727	727	727	727	727
PE	550	550			550	550	550	550	550	550	550	550	550	550	550
DM															
DB															
DC															
DP															
WH															
CG															
ON															
RI															
SB															
SM															
SO															
OS															
OM															
CO															
CT															
SU															
TB															

Summary of support (%)	Support Measures	Value share of -Prod.	Share of -Prod.	Source of -Agriculture	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	Exchange rates in: Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	EU89bFN
Meat & eggs	69.4	33.5	29.5	37.4	Production Value	6394								
Dairy	71.9	33.3	34.6	41.3	Market Value	5588								
Food crops	71.2	46.7	5.5	5.1	Consumption Value	9038								
Feed crops	74.2	65.2	24.7	23.4	Government Expenditures	1091								
Oilseeds, prod.	43.4	27.4	3.6	2.0	Producer Support	4509								
Other crops	55.3	22.3	2.0	-2.6	Consumer Transfer	3420								
Animal Products	70.7	33.4	64.2	78.7	Total TDS Estimate	1113								
Crops, oilseeds	69.6	49.5	35.8	21.3										
All products	80.7	37.8	100.0	100.0	Last update	2/10/92								
					Date printed	2/10/92								





Supply Elasticity Matrix for --> EU89bSM															
1989															
SUPPLY ELASTICITIES															
Row	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM
BF	-.57	-.07				.19				-.02	-.12	-.19			
PK	-.06	.80								-.03	-.16	-.01			
ML			.80							-.03	-.24	-.02			
PM		-.01	-.01							-.08	-.42	-.09			
PE				-.01						-.02					
DM	.07					.60									
DB						-.15	.40								
DC						-.12	.32								
DP						-.15	.40	-.20							
WH									.80						
CN									-.18		.65	-.40			
CG											-.25	-.60			
RI								.20							
SB										.45					
SM										-.05					
SO										.04					
OS										.04					
OM											.30				
OO											-.32				
CT											-.32				
SU													.20		
TB														.45	.20

Demand Elasticity Matrix for --> EU89bSM															
1989															
DEMAND ELASTICITIES															
Row	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM
BF	-.70	-.18													
PK	-.16	-.60													
ML			-.47												
PM		.15		-.65											
PE					-.35										
DM						-.09	-.45	.01							
DB							-.48								
DC															
DP									-.40						
WH										-.31	-.63	.12	.01		
CN										.06	-.61	.31			
CG										.16		-.44			
RI											.29				
SB													-.49		
SM														-.72	
SO															-.45
OS												.30			.09
OM														.03	
OO															-.28
CT															-.50
SU															-.29
TB															-.50

Shares of Product Going to Intermediate Demand for --> EU89bSM															
1989															
Shares of Product Going to Intermediate Demand for --> EU89bSM															
Supply-->	SBF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSO	SDM	SSO	SSM	SSO
DM							.27	.42							
WH	.07	.08				.14									
CN	.19	.21	.01	.02	.05	.39									
CG	.16	.22	.01	.04	.12	.34									
SB										.05					
SM	.11	.49		.06	.13	.20									
OS															
OM	.11	.47		.06	.14	.20									







SZ	-----Base Quantity Data (1000 MT)				-----Base Price Data (US\$/MT)				-----Base Values (M. US\$)				---Projection parameters & Price Trans. Elast.				Product definition and inmanonic		Trade D. M VTD
	Prod. SUPPLY	Cons. DEMAND	P-CR-I	Imports	World IMPORT	Market PRICE	Consumer PRICE	(US\$/MT)	Trade share C. PRSHARE	Prod. PRICE	Cons. BOVALUE	G. Exp. BOVALUE	SUPROW	Price Trans. ELAST.	PIELAS				
1989	DPSW	CSW	ESW	MSW	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	
1989	DPSW	CSW	ESW	MSW	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	-----Model Price Wedges (US \$/MT)-----	
BF	870	44	-5427	10.6	-3	-280.4	-209.7	6297	-5383	5427	-5427	870	44						
PK	107	-7335	-1646	3.3	-42.5	-108.1	-75.6	1753	-1646	1646	-1646	107	2903						
ML	10238			88.8			-316.0	10238	-7335	7335	-2693								
PE	294	260	-2693	4.7	-595.6	-539.2	-259.2	2693	-2693	2693	-2693	294	260						
DM		-252	-2844	51.6	-23.9	-539.2	-158.2	294	-2693	2693	-2693		42						
DB			-2218			-236.5	-77.4	2218	-2218	2218	-2218								
DC			2329			-236.5	-77.4	2329	-2329	2329	-2329								
WH	19	31	-426	3.0	3.6	-209.6	-233.7	445	-395	426	-426	19	31						
ON	165	2	-323	26.0	1.3	-219.4	-289.7	489	-323	323	-323	165	2						
RI		7	-316	23.7	1.1	-150.4	-294.3	479	-309	316	-316		163						
S8																			
SM																			
OS		207			17.5	-389.5	-125.2	996	-789	996	-996								
OM																			
OO																			
CT		79	-212	-6.3	20.5	-751.7	-47.1	198	-133	212	-212		-14						
SU																			
TB																			
Summary of support (%):																			









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Supply Elasticity Matrix for --> EUB96B1																							Value (Million US\$) of Production Exports	
SUPPLY ELASTICITIES																							Self Suffic. Ratio	Product definition and immanonic:
1989	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum	
BF																							21	
PK	-0.30																						11	
ML	-0.02	.45																					31	
PM			.35																				32	
PE				.70																			60	
DM					.35																		76	
DB						.30																		
DC							.40																	
DP								.20																
WH																								
CN																								
CG																								
RI																								
SB																								
SM																								
SO																								
OS																								
OM																								
OO																								
CT																								
SU																								
TB																								

Demand Elasticity Matrix for --> EUB96B1																							DEMAND ELASTICITIES											Product definition and immanonic:	
1989																																			
	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum												
BF																							Sum												
PK	-0.20																						-0.14												
ML	-0.02	-0.50																					-0.46												
PM		.14	-0.28																				-0.67												
PE				-0.25																			-0.33												
DM					-0.10																		-0.11												
DB						-0.15																	-0.16												
DC							-0.01																-0.27												
DP								-0.16															-0.10												
WH									-0.40														-0.30												
CN										-0.28													-0.15												
CG										-0.12	-0.39												-0.10												
RI										-0.18	-0.06	-0.39											-0.27												
SB											-0.03	-0.03	-0.15										-0.35												
SM												-0.04	-0.25	-0.45									-0.32												
SO															-0.40								-0.27												
OS																-0.40							-0.35												
OM																	-0.10						-0.30												
OO																		-0.45					-0.05												
CT																			-0.15				-0.37												
SU																				-0.15			-0.19												
TB																					-0.30		-0.50												
																							-0.35												
																							-0.55												
																							-0.35												
																							-0.35												
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Shares of Product Going to Intermediate Demand for --> EUB96B1														Value (Million US\$) of Production Exports	
SUPPLY -->														Self Suffic. Ratio	Product definition and immanonic:
DM	WH	CN	CG	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum		
DM															
WH															
CN															
CG															
SB															
SM															
SO															
OS															
OM															
OO															
CT															
SU															
TB															

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Supply Elasticity Matrix for --> EU89bCZ															
1989															
SUPPLY ELASTICITIES															
Row	Sum	TB	SU	CT	OO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	1.07														
PK	1.04														
ML	1.43														
PM	1.02														
PE	1.01														
DM	1.00														
DB	1.03														
DC	1.06														
DP	1.56														
WH	1.02														
CN	1.87														
CG	1.01														
RI	1.01														
SB	1.00														
SM	1.00														
SO	1.00														
OM	1.00														
OS	1.00														
CT	1.00														
OO	1.00														
OM	1.00														
OS	1.00														
CT	1.00														
SU	1.00														
TB	1.00														

Demand Elasticity Matrix for --> EU89bCZ															
1989															
DEMAND ELASTICITIES															
Row	Sum	TB	SU	CT	OO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	1.09														
PK	1.02														
ML	1.02														
PM	1.02														
PE	1.02														
DM	1.02														
DB	1.02														
DC	1.02														
DP	1.02														
WH	1.02														
CN	1.02														
CG	1.02														
RI	1.02														
SB	1.02														
SM	1.02														
SO	1.02														
OM	1.02														
OS	1.02														
CT	1.02														
OO	1.02														
OM	1.02														
OS	1.02														
CT	1.02														
SU	1.02														
TB	1.02														

Shares of Product Going to Intermediate Demand for --> EU89bCZ															
1989															
SUPPLY ELASTICITIES															
Row	Sum	TB	SU	CT	OO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	1.09														
PK	1.02														
ML	1.02														
PM	1.02														
PE	1.02														
DM	1.02														
DB	1.02														
DC	1.02														
DP	1.02														
WH	1.02														
CN	1.02														
CG	1.02														
RI	1.02														
SB	1.02														
SM	1.02														
SO	1.02														
OM	1.02														
OS	1.02														
CT	1.02														
OO	1.02														
OM	1.02														
OS	1.02														
CT	1.02														
SU	1.02														
TB	1.02														

CZ	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Producer Trade Share C: TPDRICE	Produce BVALUE	Base Values (M. US\$)	Projection parameters G. Exp. & Price Trans. Elast. GABRG SUPROW INCELAS PIELAS	Product definition and immanic:	Trade D. M US\$ VIDS
BF	488	458	30	20	6569	1163	1763	.004	BF	472
PK	960	925	35	5	2869	544	1377	.011	PK	551
ML	10	7	3	5	4642	2321	2654	.003	ML	
PM	216	211	5	5	1039	1039	23	.003	PM	
PE	341	339	2	10	1883	1039	224	.013	PE	
DM	7100	7100	2	2	611	312	375	.009	DM	41
DB	156	151	5	5	3435	2866	2169	.007	DB	-17
DC	149	141	8	1	4122	3009	429	.007	DC	-17
DP	70	45	25	200	2788	2326	430	.007	DP	-4
WH	6356	100	300	200	185	170	822	.015	WH	-375
CN	1000	1150	50	150	196	198	176	.016	CN	-34
CG	4588	4538	50	150	153	178	632	.011	CG	-343
RI	6	70	-70	70	640	320	695	.010	RI	
SM	12	572	-17	17	289	275	45	.011	SM	
SO	2	3	-1	560	309	247	7	.011	SO	
OS	472	517	-45	1	862	431	177	.011	OS	
OM	284	386	-102	45	322	450	3	.008	OM	-156
OO	203	222	-19	102	250	200	96	.008	OO	
CT	700	109	-109	24	1548	774	57	.008	CT	
SJ	700	700	-20	109	3348	1674	157	.008	SJ	
TB	5	25	-20	200	616	362	216	.005	TB	-35

CZ	1989	Model Price Wedges (US \$/MT)	Model Price Wedges (%)	Producer and Consumer Subsidy Equivalent Rates	Mkt. S. Import Export	Set-aside P. Cons. Share US \$/MT
BF	2450	CSW	MSW	PSEIP%	MS	PSSE
PK	891	-891	67.8	62.1	2450	PSSE
ML	143	-143	13.0	67.8	2450	PSSE
PE	118	-118	-2.3	62.1	891	PSSE
DM	124	-124	-4.3	62.1	891	PSSE
DC	96	-96	-4.3	62.1	891	PSSE
DP	41	-41	-31.5	62.1	891	PSSE
WH	22	-22	-12.4	62.1	891	PSSE
CN	40	-40	-29.0	62.1	891	PSSE
CG	160	-160	-55.4	62.1	891	PSSE
SM	54	-54	-17.7	62.1	891	PSSE
SO	54	-54	-17.7	62.1	891	PSSE
OS	54	-54	-17.7	62.1	891	PSSE
OM	54	-54	-17.7	62.1	891	PSSE
OO	54	-54	-17.7	62.1	891	PSSE
CT	54	-54	-17.7	62.1	891	PSSE
SJ	54	-54	-17.7	62.1	891	PSSE
TB	54	-54	-17.7	62.1	891	PSSE

Summary of support (%)	Support Measures	Value share of -Prod.	Share of -Prod.	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet
Meat & eggs	55.8	41.0	146.9	Production Value	9167	EU89bCZ	EU89bCZ
Dairy	-2.9	34.7	-6.5	Market Value	9167		
Food crops	-31.5	9.0	-18.1	Consumption Value	16178		
Feed crops	-25.3	8.8	-14.3	Government Expenditures			
Oilseeds, prod.	-21.3	5.9	-5.3	Producer Support	1429		
Other crops	-16.2	2.6	-2.7	Consumer Transfer	-1324		
Animal Products	28.9	75.8	140.4	Total TDS Estimate	83		
Crops, oilseeds	-26.0	24.2	-40.4				
All products	15.6	100.0	100.0	Last update	1/30/92		
				Date printed	2/4/92		

Supply Elasticity Matrix for --> EU89dHU																			1989						SUPPLY ELASTICITIES							Self Suffic.		Value (Million US\$) of Production Exports	
	BF	BK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SQ	OS	OM	CO	CT	SU	TB	ROW SUM	Ratio	Production	Exports									
BF	-0.19	-0.05				.10				-0.02	-0.06	-0.01			-0.01								-12.52	1.42	226	46									
BK	-0.01	.87								-0.03	-0.14	-0.03			-0.07								-12.52	1.14	154	46									
ML			.33							-0.02	-0.08	-0.01			-0.01								-20.20	2.00	9	162									
PM				.70						-0.02	-0.26	-0.06			-0.07								-14.06	1.71	388	5									
PE					.35					-0.07	-0.14	-0.03			-0.03								-14.06	1.03	527	160									
DM						.99				-0.10	-0.25	-0.05			-0.02								-60.05	1.00	145	7									
DB						-0.15	.30	-0.26	.16														-05.05	1.15	217	14									
DC						-0.15	-0.17	-0.47	-0.09														-05.05	1.35	217	42									
DP						-0.15	.30	-0.26	.16														-12.12	1.00	78	2									
WH										.70	-0.55	-0.02											-48.91	1.30	591	156									
CN										-0.47	-0.98	-0.03											-23.23	1.03	689	22									
CG										-0.07	-0.12	.45											-23.23	.91	170										
RI											-0.10	-0.05	.30										-20.20	.29	7										
SB														.45	.20								-55.55	1.43	32	10									
SM														-0.23	.20								-05.05	.03	4										
SQ														-0.23	.20	.08							-05.05	.67	2										
OS														-0.01		.08	.90						-83.83	1.03	152	14									
OM										-0.04		-0.02					-0.12	.04	.14				-05.05	.78	63										
CO																	-0.12	.04	.14				-05.05	2.41	250	151									
CT																				.15			-15.15		80	3									
SU																					.20		-20.20	.93	42	8									
TB																						.20	-20.20	.69	42										

Demand Elasticity Matrix for --> EU89bHU														1989														DEMAND ELASTICITIES														ROW		S-D		Product definition and immanonic:
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Sum	Sum	Sum	Sum																					
BF	-.40	.06																				-.47	-.34	.46	.46	BF	Beef and veal																			
PK	.01	-.50																				-.28	-.09	.48	.49	PK	Pork																			
ML		.13	-.28																			-.10	-.12	.26	.26	ML	Mutton and Lamb																			
PM				-.10																		-.10	-.12	.16	.16	PM	Poultry Meat																			
PE					-.16		.03	.01														-.10	-.10	.70	.70	PE	Poultry, Eggs																			
DM						-.02																-.15	-.15	.20	.20	DM	Dairy - fluid Milk																			
DC							-.16	-.40														-.16	-.40	.21	.21	DC	Dairy - Butter																			
DP									-.71	.17	.07											-.40	-.44	.45	.45	DP	Dairy - Cheese																			
WH									.15	-.11	.10			.02		.01						-.68	-.57	.56	.56	WH	Wheat																			
CN									.22	.36	-.1.25			.07		.03						1.16	1.16			CN	Corn																			
CG												-.15		.12								-.57	-.57	.80	.80	CG	other Coarse Grains																			
RI														.04	.02							-.15	-.15	.35	.35	RI	Rice																			
SB										.43	.07		-.19									-.13	-.13	.48	.48	SB	Soybeans																			
SM									.06				-.1.39			.06						-.76	-.81	.81	.81	SM	SoyMeal																			
SO														-.40		.10						-.30	-.35	.35	.35	SO	SoyOil																			
OS															-.29	.05	.19					-.05	-.05	.88	.88	OS	Other oilSeeds																			
OM									.07	.45	.06		.12			-.1.46						-.76	-.81	.20	.20	OM	Other Meals																			
OO																-.15						-.15	-.15	.20	.20	OO	Other Oils																			
CT																	-.15		-.15			-.15	-.15	.30	.30	CT	Cotton																			
SU																			-.30			-.35	-.35	.55	.55	SU	Sugar (refined)																			
TB																				-.35						TB	Tobacco																			

[illegible]



HU	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Imports	World	Base Price Data	Consumer	Trade	Producer	Base	Values	Projection parameters	Product	Trade D.
			Cons. P-C-E-I	Exports	Imports	World	Market	Price	Share C.	Prod.	Cons.	G. Exp. & Price Trans.	definition	M US\$
			DEMAND	EXPORTS	IMPORTS	WPRI	MPRI	CPRI	PRSHARE	BPRI	BCV	GAEM\$ SUPPORW INELAS	and mnemonic:	VTDS
BF	108	76	32	47	15	2567	2096	3911	986	55	226	39	BF	Beef & veal
PK	1079	944	135	135		2176	1429	2858	1201	50	1542	37	PK	Pork
ML	4	2	174	2		2321	923	4642	9221	50	2698	40	ML	Mutton & Lamb
PM	420	246	250	174		1039	886	1677	922	55	413	44	PM	Poultry Meat
PE	257	250	8	8		1696	886	1476	876	60	388	45	PE	Poultry, Eggs
DE	2840	33	5	5		272	186	371	178	50	527	31	DE	Dairy, fluid Milk
DB	38	30	14	14		2866	3825	4781	2866	80	145	46	DB	Dairy - Butter
DC	54	33	25	1		3009	4015	5736	3009	70	217	43	DC	Dairy - Cheese
DP	6509	5009	1500	1500		3326	3104	3880	3326	80	229	41	DP	Dairy - Powder
WH	1653	1808	170	170		111	91	130	104	70	591	04	WH	Wheat
CG	22	77	155	155		105	103	114	117	90	650	06	CG	o. Coarse Gr.
RI	116	81	35	35		320	320	640	320	90	207	06	RI	o. Coarse Gr.
SB	18	669	651	651		275	275	289	275	95	32	22	SB	Soybeans
SM	4	6	2	2		247	247	309	247	80	207	10	SM	SoyMeal
SO	802	780	22	43		431	431	862	431	50	5	53	SO	SoyOil
OS	313	400	87	87		200	200	211	200	90	164	10	OS	o. oilSeeds
OM	323	134	189	195		774	774	1548	774	80	100	10	OM	o. Meats
CO	475	74	74	2		1674	1674	3348	1674	50	207	53	CO	Other Oils
SU	11	510	35	35		282	168	336	211	50	172	51	SU	Cotton
TB		16	5	2		3844	3844	7688	3844	50	123	56	TB	Sugar (rfind.)
														Tobacco

HU	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Imports	World	Base Price Data	Consumer	Trade	Producer	Base	Values	Projection parameters	Product	Trade D.
			Cons. P-C-E-I	Exports	Imports	World	Market	Price	Share C.	Prod.	Cons.	G. Exp. & Price Trans.	definition	M US\$
			DEMAND	EXPORTS	IMPORTS	WPRI	MPRI	CPRI	PRSHARE	BPRI	BCV	GAEM\$ SUPPORW INELAS	and mnemonic:	VTDS
BF	1110	-1110	53.0	53.0		29.1	43.3	-43.3	1110	-1110	1110	1110	BF	Beef & veal
PK	10	-10	1.1	1.1		-7	6	-6	10	-10	10	10	PK	Pork
ML	959	-959	25.1	25.1		-20.1	33.4	-33.4	959	-959	959	959	ML	Mutton & Lamb
PM	1006	-1006	25.1	25.1		-17.5	33.4	-33.4	1006	-1006	1006	1006	PM	Poultry Meat
PE	778	-778	25.1	25.1		-20.1	33.4	-33.4	778	-778	778	778	PE	Poultry, Eggs
DE	13	13	-14.2	-14.2		9.9	-7.6	7.6	13	-13	13	13	DE	Dairy, fluid Milk
DB	-26	26	-25.6	-25.6		23.0	-23.5	23.5	-26	26	-26	-26	DB	Dairy - Butter
DC	-14	14	-13.4	-13.4		12.1	-13.1	13.1	-14	14	-14	-14	DC	Dairy - Cheese
WH													WH	Wheat
CG													CG	o. Coarse Gr.
RI													RI	o. Coarse Gr.
SB													SB	Soybeans
SM													SM	SoyMeal
SO													SO	SoyOil
OS													OS	o. oilSeeds
OM													OM	o. Meats
CO													CO	Other Oils
SU													SU	Cotton
TB													TB	Sugar (rfind.)
														Tobacco

Summary of support (%)	Support Measures	Value share of -Prod.	Share of -Prod.	Share of -Agriculture	Source of -Consumer Transfer
Meat & eggs	15.4	44.0	435.9	100	100
Dairy	13.7	17.8	156.0	100	100
Food crops	-14.0	11.0	-99.1	99	99
Feed crops	-23.2	15.8	-235.0	100	100
Oilseeds, prod.	-22.6	9.2	-133.9	30	30
Other crops	-16.5	2.2	-23.8	65	65
Animal Products	14.9	61.7	591.9	100	100
Crops, oilseeds	-20.0	38.3	-491.9	81	81
All products	1.6	100.0	100.0	93	93

Supply Elasticity Matrix for --> EUB99PL															
1989															
SUPPLY ELASTICITIES															
Row	Sum	TB	SU	CT	OO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	-.13														
PK	-.21														
ML	-.35														
PM	-.27														
PE	-.14														
DM	-.05														
DC	-.05														
DP	-.05														
WH	-.24														
CN	-.15														
CG	-.20														
RI	-.15														
SB	-.05														
SM	-.05														
SO	-.08														
OM	-.05														
OS	-.15														
CT	-.15														
SU	-.10														
TB															

Demand Elasticity Matrix for --> EUB99PL															
1989															
DEMAND ELASTICITIES															
Row	Sum	TB	SU	CT	OO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	-.21														
PK	-.10														
ML	-.14														
PM	-.20														
PE	-.07														
DM	-.30														
DC	-.20														
DP	-.40														
WH	-.20														
CN	-.44														
CG	-.40														
RI	-.20														
SB	-.50														
SM	-.45														
SO	-.20														
OM	-.01														
OS	-.26														
CT	-.30														
SU	-.20														
TB															

Shares of Product Going to Intermediate Demand for --> EUB99PL															
1989															
SUPPLY ELASTICITIES															
Row	Sum	TB	SU	CT	OO	OM	OS	SO	SM	SB	RI	CG	CN	WH	DP
BF	-.13														
PK	-.21														
ML	-.35														
PM	-.27														
PE	-.14														
DM	-.05														
DC	-.05														
DP	-.05														
WH	-.24														
CN	-.15														
CG	-.20														
RI	-.15														
SB	-.05														
SM	-.05														
SO	-.08														
OM	-.05														
OS	-.15														
CT	-.15														
SU	-.10														
TB															

PL	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product definition and immanonic	Trade D. M USD
	Prod. SUPPLY	Cons. DEMAND	P-C-E-1 Exports	Imports	World PRICE	Market PRICE	Consumer PRICE	(US\$/MT)	Trade share C. TORSHARE	Prod. BPRICE	Cons. BPRICE	G. Exp. GAEXP	Price Trans. SUPROW	Elast. PTELAS				
1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989		
BF	729	771	-42	48	90	2567	1316	2593	2324	55	984	1945	24	008	39	BF	Beef & veal	
PK	1870	1817	53	73	20	2176	1537	3074	2321	50	2934	5585	60	019	37	PK	Pork	
ML	22	22				2321	2321	4642	2321	50	51	102		007	40	ML	Mutton & Lamb	
PM	348	335	13	18	5	1039	1139	2072	1588	55	408	694	11	034	44	PM	Poultry Meat	
PE	496	495				1696	821	1369	1098	60	419	678	11	019	45	PE	Poultry, Eggs	
DM	16371	16371	1	1		272	49	97	40	50	837	1594	39	011	31	DM	Dairy - fluid Milk	
D8	330	341	-16	3	16	2866	2343	2928	2866	80	761	999		011	46	D8	Dairy - Butter	
DC	130	132	-2	5	5	3009	2460	3514	3009	70	320	464		011	43	DC	Dairy - Cheese	
DP	171	172	52	59	7	2326	1901	2377	2326	80	331	290		011	41	DP	Dairy - Powder	
WH	8462	9832	-1370		1370	169	121	173	174	70	1047	1697	24	035	04	WH	Wheat	
OH	244	744	-500		500	111	111	123	111	90	27	92		019	10	OH	O. Coarse Gr.	
CG	18252	18427	-175	100	275	105	101	112	173	50	27	2062	38	019	06	CG	O. Coarse Gr.	
RI		58	-58		58	320	320	640	320	50	1876	37		010	22	RI	Rice	
SB		366	-20		20	275	275	289	275	95	6	113		10	10	SB	Soybeans	
SM		50	-50	91	457	247	247	309	247	80	217	43	8	019	53	SM	SoyMeal	
SO	1597	50	726	729	50	431	431	862	431	30	217	43		019	53	SO	SoyOil	
OS	514	477	726	42	3	630	131	145	209	90	103	127		019	10	OS	O. oilSeeds	
OM	335	330	5	42	27	200	200	250	200	80	119	511		019	10	OM	O. Meals	
CO		142	-142		142	774	774	1548	774	50	259	511		010	53	CO	Other Oils	
CT	1825	1969	-144	99	243	1674	1674	3348	1674	50	1354	475	29	009	51	CT	Cotton	
SU	54	48	6	15	9	282	726	1452	3844	50	208	369		009	26	SU	Sugar (rfind.)	
TB						3844	3844	7688						009	56	TB	Tobacco	
PL																		
1989																		
BF	-974	1008			-72.2	42.1		-72.2	42.1	-37.9	39.2	-974	1008	-1008		33	Set-aside P. Cons. Share US \$/MT	
PK	-806	839			-51.4	27.3		-51.4	27.3	-37.1	38.5	-806	839	-839		32	Prod. Cons. Share US \$/MT	
ML	-397	429			-33.9	20.7		-33.9	20.7	-38.2	41.3	-397	429	-429		32	CSSE S-SIDE	
PE	-254	276			-30.1	20.2		-30.1	20.2	-15.0	16.3	-254	276	-276		22	CSSE S-SIDE	
DM	11	-8																

Demand Elasticity Matrix for --> EUB98ARM															DEMAND ELASTICITIES															1989	Product definition and mnemonic:
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	CM	CO	CT	SU	TB	Row	S-D								
BF	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	CM	CO	CT	SU	TB	Sum	Sum	BF						
PK	-.20	.06																				-.14	-.34	PK							
ML	.02	-.50	-.28																			-.46	.60	ML							
PM		.08		-.25																		-.28	.49	PM							
PE					-.10																	-.17	.18	PE							
DM						-.14	.02	.01														-.10	.31	DM							
DB						-.15	-.01															-.15	.43	DB							
DC							-.16	-.40														-.16	.20	DC							
DP									-.27	.05	.02											-.40	.45	DP							
WH									-.07	-.36	.05											-.20	.39	WH							
CN									.08	-.14	-.37											-.41	.01	CN							
CG												-.15										-.12	.22	CG							
RI													-.36									-.15	.42	RI							
SB										.18	.03			-.45								-.05	.42	SB							
SM															-.23	.08						-.28	.01	SM							
SO																-.40	.10					-.35	.28	SO							
OS																	.03	.10				-.05	.35	OS							
CM										.13	.05					-.09	.01	.03				-.25	.30	CM							
CO																	-.46	-.15				-.12	.17	CO							
CT																			-.15			-.15	.30	CT							
SU																				-.30		-.30	.50	SU							
TB																					-.35	-.35	.55	TB							

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MF	1989	Prod. SUPPLY	Cons. DEMAND	Base Quantity Data (1000 MT)	World Market	Base Price Data	US\$/MT	Producer Trade share C.	Prod. Cons. BVALUE	Base Values (M. US\$)	Projection parameters	Product definition and immanic:	Trade D. M US\$ VIDS
				P-C-E-1 Exports IMPORTS	WORLD MARKET	MPRICE PRPRICE	CMRICE	TPRICE PRSHARE		G. Exp. Cons. BVALUE	G. Exp. Cons. BVALUE		
BF	449	675	-226	226	2567	2567	4667	2567	1153	3150	.011	Beef & veal	
PK	184	320	-136	136	2176	2176	4352	2176	427	1485	.027	Pork	
ML	110	115	-5	5	2321	2321	4642	2321	114	217	.012	Mutton & Lamb	
PM	297	305	-8	8	1039	1039	1889	1039	503	862	.032	Poultry Meat	
PE	1696	1696	-8	8	1696	1696	2827	1696	461	923	.029	Poultry, Eggs	
DM	12	104	-92	92	272	272	544	272	34	373	.017	Dairy - fluid Milk	
DC	320	362	-42	42	2866	2866	3582	2866	963	1556	.033	Dairy - Butter	
DP	8525	22447	-13922	13922	3009	3009	4299	3009	80	285	1.03	Dairy - Cheese	
WH	4929	8220	-3291	3291	2326	2326	2907	2326	1441	5419	.017	Dairy - Powder	
ON	4856	6306	-1450	1450	169	169	241	169	547	1014	.018	Wheat	
CG	1431	1563	-132	164	111	111	123	111	510	736	.02	Coarse Gr.	
R1	91	158	-67	67	105	105	117	105	458	1000	.008	o. Coarse Gr.	
SB	121	1031	-910	910	320	320	640	320	25	46	.026	Rice	
SM	26	268	-242	242	275	275	289	275	30	318	.026	Soybeans	
SO	801	827	-26	27	247	247	309	247	505	579	.026	SoyMeal	
OS	471	644	-173	176	431	431	862	431	11	231	.016	o. oilSeeds	
OM	290	1311	-1021	1098	630	630	700	630	94	161	.016	o. Meals	
CO	298	403	-105	155	200	200	250	200	224	2029	.016	Other Oils	
CT	1513	3549	-2036	2036	774	774	1548	774	499	1349	.006	Cotton	
SU	16	78	-62	63	1674	1674	3348	1674	427	2002	.025	Sugar (rfind.)	
TB					282	282	564	282	62	600	.009	Tobacco	
					3844	3844	7688	3844					

MF	1989	Prod. SUPPLY	Cons. DEMAND	Base Quantity Data (1000 MT)	World Market	Base Price Data	US\$/MT	Producer Trade share C.	Prod. Cons. BVALUE	Base Values (M. US\$)	Projection parameters	Product definition and immanic:	Trade D. M US\$ VIDS
				P-C-E-1 Exports IMPORTS	WORLD MARKET	MPRICE PRPRICE	CMRICE	TPRICE PRSHARE		G. Exp. Cons. BVALUE	G. Exp. Cons. BVALUE		
BF	449	675	-226	226	2567	2567	4667	2567	1153	3150	.011	Beef & veal	
PK	184	320	-136	136	2176	2176	4352	2176	427	1485	.027	Pork	
ML	110	115	-5	5	2321	2321	4642	2321	114	217	.012	Mutton & Lamb	
PM	297	305	-8	8	1039	1039	1889	1039	503	862	.032	Poultry Meat	
PE	1696	1696	-8	8	1696	1696	2827	1696	461	923	.029	Poultry, Eggs	
DM	12	104	-92	92	272	272	544	272	34	373	.017	Dairy - fluid Milk	
DC	320	362	-42	42	2866	2866	3582	2866	963	1556	.033	Dairy - Butter	
DP	8525	22447	-13922	13922	3009	3009	4299	3009	80	285	1.03	Dairy - Cheese	
WH	4929	8220	-3291	3291	2326	2326	2907	2326	1441	5419	.017	Dairy - Powder	
ON	4856	6306	-1450	1450	169	169	241	169	547	1014	.018	Wheat	
CG	1431	1563	-132	164	111	111	123	111	510	736	.02	Coarse Gr.	
R1	91	158	-67	67	105	105	117	105	458	1000	.008	o. Coarse Gr.	
SB	121	1031	-910	910	320	320	640	320	25	46	.026	Rice	
SM	26	268	-242	242	275	275	289	275	30	318	.026	Soybeans	
SO	801	827	-26	27	247	247	309	247	505	579	.026	SoyMeal	
OS	471	644	-173	176	431	431	862	431	11	231	.016	o. oilSeeds	
OM	290	1311	-1021	1098	630	630	700	630	94	161	.016	o. Meals	
CO	298	403	-105	155	200	200	250	200	224	2029	.016	Other Oils	
CT	1513	3549	-2036	2036	774	774	1548	774	499	1349	.006	Cotton	
SU	16	78	-62	63	1674	1674	3348	1674	427	2002	.025	Sugar (rfind.)	
TB					282	282	564	282	62	600	.009	Tobacco	
					3844	3844	7688	3844					

Summary of support (%):	Support Measures	Value share of -Prod.	Share of -Source-Prod. Support	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
Meat & eggs	PSE	25.9	23.5	Production Value	8490	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
Dairy	CSE	17.2	12.9	Market Value	8490	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
Food crops		22.4	26.4	Consumption Value	24340	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
Feed crops		12.5	7.2	Government Expenditures		Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
Oilseeds, prod.		10.5	13.8	Producer Support		Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
Other crops		11.6	16.2	Consumer Transfer		Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
Animal Products		43.1	36.4	Total TDS Estimate	0	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
Crops, oilseeds		56.9	63.6	Last update	1/13/92	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF
All products		100.0	100.0	Date printed	2/12/92	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data	ELB94MF	ELB95MF







OM	1989	Supply	Prod. Demand	Cons. Demand	Base Quantity Data (1000 MT)	Imports	Exports	Trade share C	Produce	Base Price Data	World	Market	Produce	Trade share C	Produce	Base Values (M. US\$)	G. Exp.	Projection parameters	Product definition and immanic	Trade D.
BF	64	110	-46	7	53	2567	2176	2567	2567	4667	4352	4352	2567	2567	2567	513	.015	.49	Beef & veal	
PK	103	117	-14	1	15	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	44	.027	.48	Pork	
ML	848	1085	-237	22	259	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	543	.013	.51	Mutton & Lamb	
PM	375	382	-7	19	26	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	2050	.033	.70	Poultry Meat	
PE	916	916				2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	1081	.029	.58	Dairy - fluid Milk	
DM	4	4				2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	498	.016	.44	Dairy - Butter	
DC	16	15	1	1		2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	14	.016	.62	Dairy - Cheese	
DP	10792	22407	-11615	1735	13350	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	64	.016	.48	Dairy - Powder	
WH	324	3609	-3285			2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	1824	.019	.20	Wheat	
CH	4846	11659	-6813	25	6838	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	445	.015	.05	Coarse Gr.	
CG	1147	3788	-2641	15	2656	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	1360	.011	.07	Rice	
RI	110	529	-419	110	419	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	2424	.007	.34	Soybeans	
SM	385	1514	-1129	14	1143	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	153	.024	.18	SoyMeal	
SO	87	605	-518	8	526	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	427	.024	.13	SoyMeal	
OS	649	678	-29	15	44	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	521	.024	.60	OilSeeds	
OM	203	359	-156	2	158	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	475	.018	.18	Oil Meals	
OO	137	979	-842	2	844	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	90	.018	.17	Other Oils	
CT	334	255	79	108	29	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	1515	.018	.60	Cotton	
SU	496	4003	-3507	5	3507	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	2558	.026	.27	Sugar (rfind.)	
TB	51	87	-36		41	2567	2176	2567	2567	4352	4352	4352	2567	2567	2567	669	.009	.50	Tobacco	
OM	1989	DP-SW	Model Price Wedges (US \$/MT)	MSW	DP-SW	Model Price Wedges (%)	CSW	MSW	Model Price Wedges (%)	MSW	DP-SW	Model Price Wedges (%)	CSW	MSW	Model Price Wedges (%)	MSW	DP-SW	Model Price Wedges (%)	MSW	DP-SW
BF																				
PK																				
ML																				
PM																				
PE																				
DM																				
DC																				
DP																				
WH																				
CH																				
CG																				
RI																				
SM																				
SO																				
OS																				
OM																				
OO																				
CT																				
SU																				
TB																				
Summary of support (%)																				
Meat & eggs																				
Dairy crops																				
Food crops																				
Feed crops																				
Oilseeds, prod.																				
Other crops																				
Animal Products																				
Crops, oilseeds																				
All products																				

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Shares of Product Going to Intermediate Demand for --> EU89RW														Date printed		
Supply-->														Last update		
DM	SF	SPK	SML	SPM	SPE	SDM	SD8	SDC	SDP	SSM	SSD	SOM	SCO	Row Sum	Final Dem. Share	Final Dem. Elas.
							.23	.15	.03					.40	.60	-.10 DM
WH		.01			.01									.02	.98	-.10 WH
CN	.06	.20	.02	.04	.09	.05								.46	.55	-.10 CN
CG	.03	.42	.01	.02	.06	.02								.26	.74	-.10 CG
SB																
SM	.06	.59	.01	.09	.19	.04				.52	.10			.63	.37	-.30 SB
OS														.98	.02	-.10 OS
CM	.04	.44	.01	.07	.16	.03						.55	.32	.87	.13	-.35 CM
													.75	.25	-.10 DM	
Feed Ratios (Total feed/animal prod.)														Base year ----->>>		
SF SPK SML SPM SPE														Exchange rate (LC/US\$)		
1.86 2.23 1.65 1.74 1.97														Transmission elast.		
..Feed mix percent by animal product.														Income growth rate		
SF SPK SML SPM SPE														Population growth rate		
73 57 69 64 56														Income (Million US\$)		
19 18 17 17 19														Population ('000)		
3 6 2 5 4														Per Capita Income (\$)		
6 15 6 14 12														Model spreadsheet ---->		
..Estimated protein percentage..														EU89RW		
SF SPK SML SPM SPE														Elasticities for -->		
12.3 16.4 12.1 15.6 14.9														EU89RW		
Av. meal/grain price ratio = 1.49																
Av. feed protein percent = 15.0																

Summary of support (%):	Support Measures PSE	Value share of -Prod. -Cons.	-----Share of----- Produce, Agric. Support	Source- Consumer Transfer	Summary of base information:	Million US \$	Base model spreadsheet --> Support spreadsheet ----->	EU89aRW EU89bRW
Meat & eggs	2.5	22.0	23.7	23.3	Production Value	252480		
Dairy	1.8	7.7	8.9	75	Market Value	252480		
Food crops	3.5	27.0	27.7	38.1	Consumption Value	450503		
Feed crops	3.0	12.2	7.7	9.1	Government Expenditures	11580	Exchange rates in:	1
Oilseeds, prod.	1.6	18.7	19.9	12.6	Producer Support	-727	Model spreadsheet	1
Other crops	3.6	12.4	12.1	16.9	Consumer Transfer	12306	Support spreadsheet	US\$
					Total TDS Estimate	-5973	Currency unit per US\$	1989
Animal Products	-1.0	2.3	32.6	19			Base year ----->	
Crops, oilseeds	2.9	70.4	67.4	23.3				
				76.7				
ALL products	-3	100.0	100.0	100.0	Last update	1/13/92	Base data ----->	EU89aRW
				6	Date printed	2/ 4/92		

#### Appendix 4--WH89-Western Hemisphere Model Data

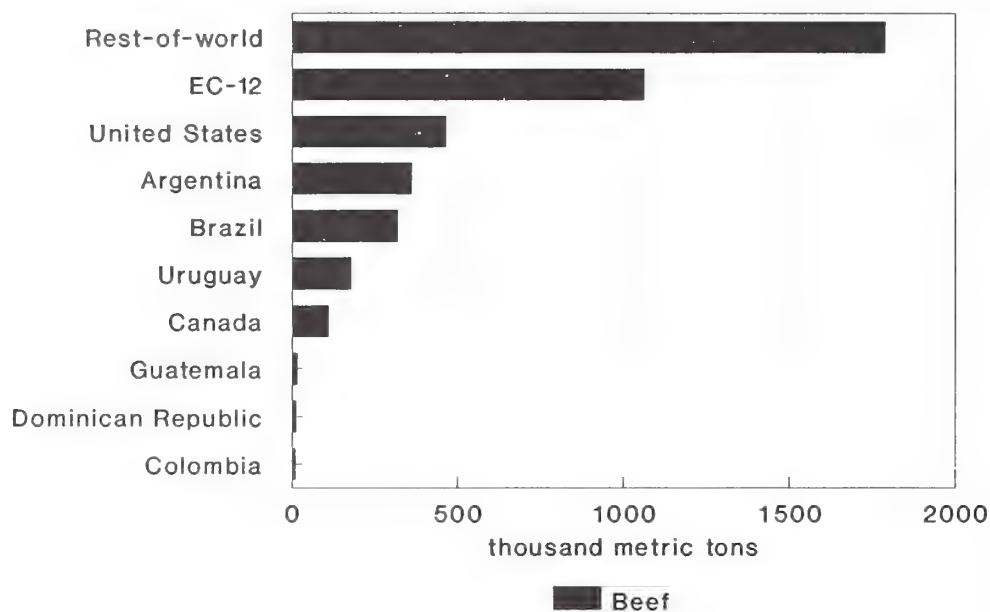
The following pages contain the output of the SWOPSIM programs EOUT and BOUT for each of the countries/regions in the world model denoted WH89, which have not already been listed as part of the WD89 database. Thus, even though there are 38 regions in this database, we only print the data for the 30 unique to this database. The countries/regions not reprinted are denoted by bold type in the following table.

#### Country/region coverage in the WH89 Database

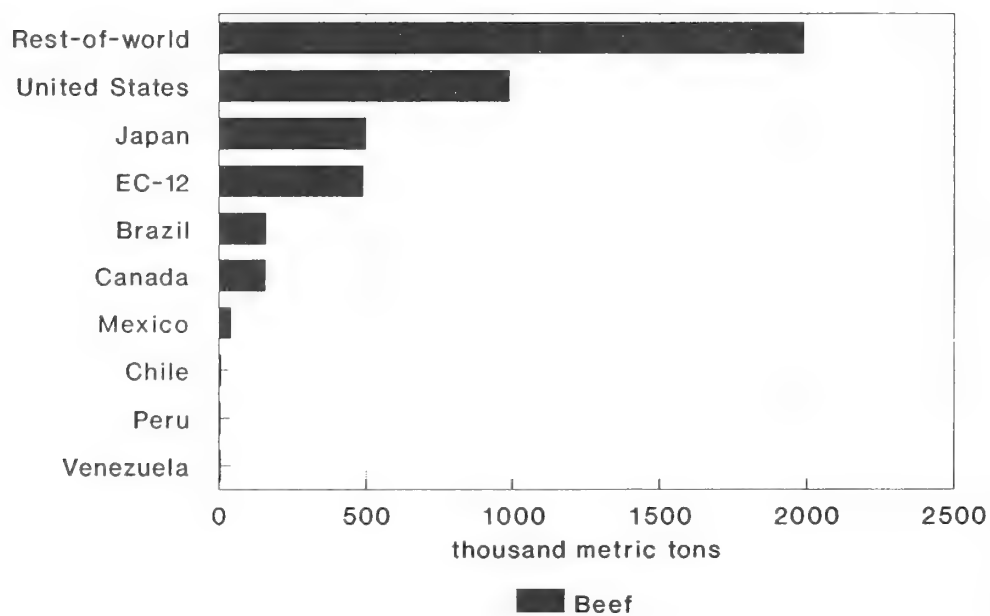
Code	Country/region
US	United States
CN	Canada
EC	European Community
JP	Japan
BE	Belize
CR	Costa Rica
ES	El Salvador
GT	Guatemala
HO	Honduras
NI	Nicaragua
PA	Panama
BH	Bahamas
BA	Barbados
BD	Bermuda
CU	Cuba
DR	Dominican Republic
GU	Guadeloupe
HA	Haiti
JM	Jamaica
MA	Martinique
NN	Netherland Antilles
SC	St. Lucia
ST	St. Vincent
TT	Trinidad & Tobago
<b>MX</b>	<b>Mexico</b>
<b>AR</b>	<b>Argentina</b>
<b>BZ</b>	<b>Brazil</b>
BO	Bolivia
CL	Chile
CO	Colombia
ED	Ecuador
GY	Guyana
PR	Paraguay
PE	Peru
SU	Surinam
UR	Uruguay
<b>VE</b>	<b>Venezuela</b>
RW	Rest-of-world



## Top 10 Exporters in the WH89 Database

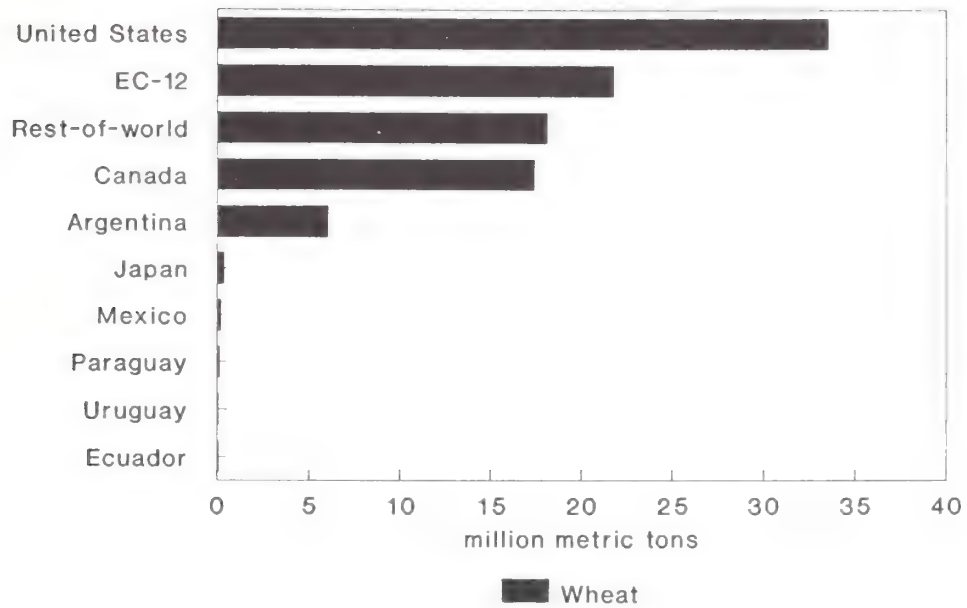


## Top 10 Importers in the WH89 Database

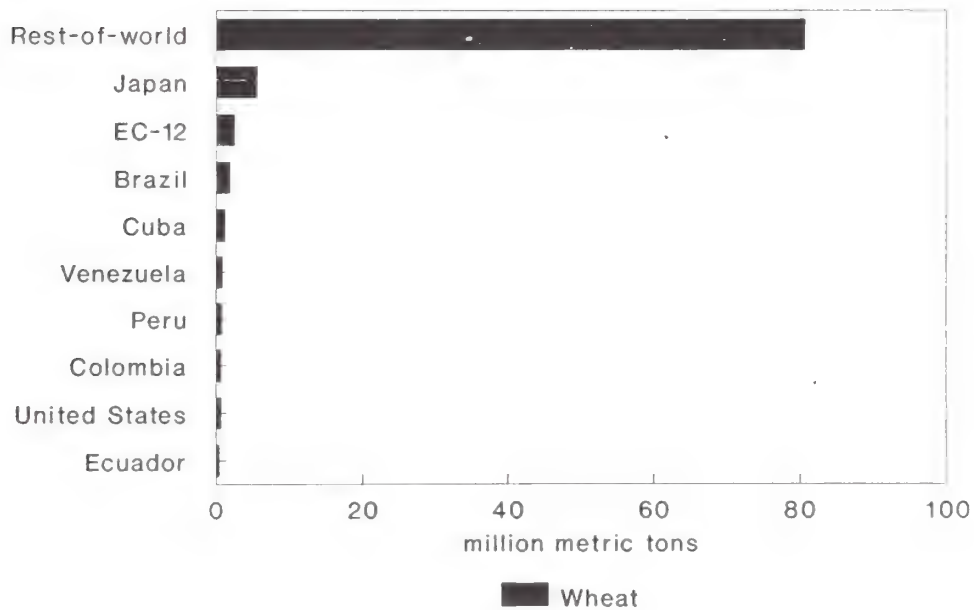




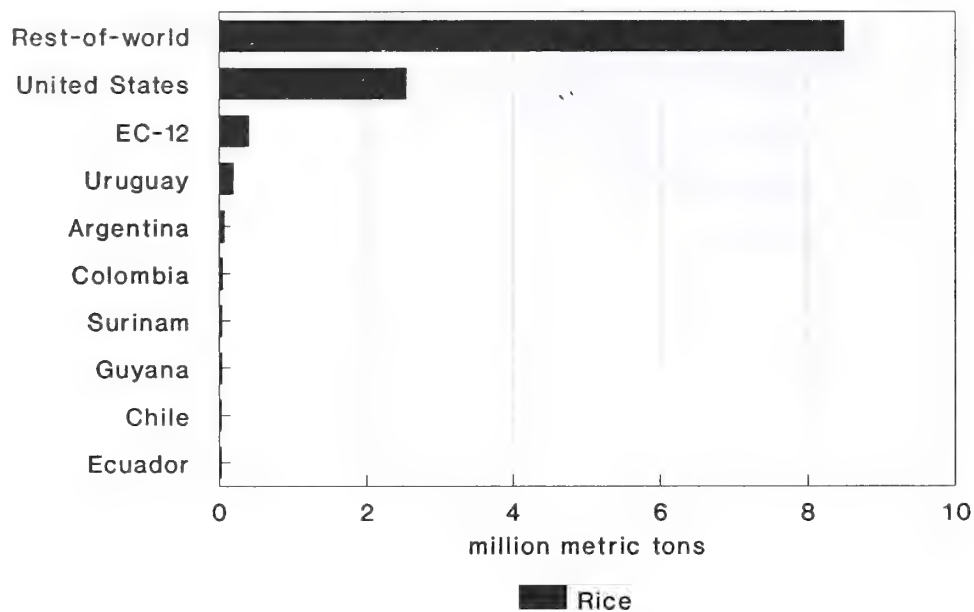
## Top 10 Exporters in the WH89 Database



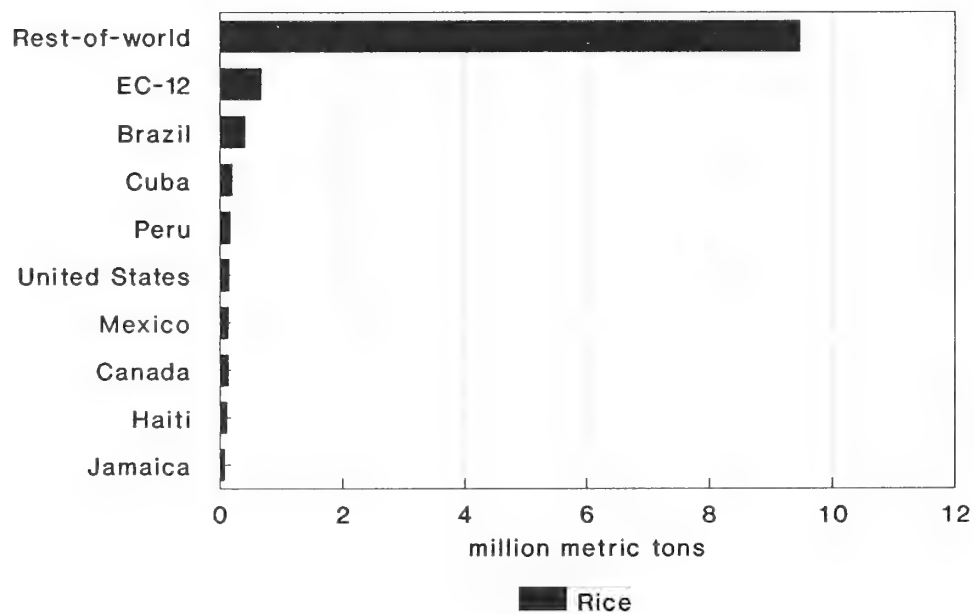
## Top 10 Importers in the WH89 Database



## Top 10 Exporters in the WH89 Database



## Top 10 Importers in the WH89 Database



Supply Elasticity Matrix for --> WH89b8E				1989		SUPPLY ELASTICITIES		Value (Million US\$) of Production Exports			
BF	BF	PE	WH	SU	Row Sum	Self Suffic. Ratio	5				
BF	BF	PE	WH	SU	BF	BF	5				
PE		.60			.60	PE	641				
WH			.47		.27	WH	.99				
				.30	.30	SU	13.14				
SU					.30	SU	26				
DEMAND ELASTICITIES											
Demand Elasticity Matrix for --> WH89b8E				1989		Product definition and immanence:					
BF	BF	PE	WH	SU	Row Sum	BF	Beef and veal				
BF	BF	PE	WH	SU	S-D Sum	BF	Beef and veal				
PE		-.50			-.50	PE	Poultry, Eggs				
WH			-.23		-.23	WH	Wheat				
SU				-.30	-.30	SU	Sugar (refined)				
Shares of Product Going to Intermediate Demand for --> WH89b8E											
Supply-->	SBF	SPK	SNL	SPM	SPE	SOM	Final Dem. Share				
WH					.08	.08	.92				
--Estimated protein percentage... SBF SPK SNL SPM SPE SOM Av. meal/grain price ratio = 10.0 Av. feed protein percent = 10.0											
Date printed Last update							2/ 7/1992 2/ 6/1992				
Base year ----->							1989				
Exchange rate (LC/US\$)							1				
Transmission elast.							.5				
Income growth rate							-.0180				
Population growth rate							-.0195				
Income (Million US\$)							89216				
Population (1000)							59909				
Per Capita Income (\$)							1489				
Model spreadsheet -->							WH89b8E				
Elasticities for -->							WH89b8E				

BE	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product	Trade D.
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-1 NTRADE	Exports IMPORTS	World WOPRICE	Market MKPRICE	Producer PRPRICE	Consumer ONPRICE	Trade share C. TDPRICE	Prod. BPVALUE	Cons. BCVALUE	G. Exp. GAEXP	& Price Trans. SUPGROW	Elast. INCELAS	PTELAS	definition and immanic:	M US\$/ VTD\$	
BF	2	2			2567	2567	2567	4667	2567	.55	5	9	.014	.56	.50	BF	Beef & veal	
PE	378	378			1696	1696	1696	2827	1696	.60	641	1068	.023	.66	.50	PE	Poultry, Eggs	
WH					169	169	169	241	169	.70			.019	.40	.45	WH	Wheat	
SU	92	7	85	85	282	282	282	564	282	.50	26	4	.015	.43	.20	SU	Sugar (rfind.)	
BE	-----Model Price Wedges (US \$/MT)-----				-----Model Price Wedges (%)-----				---Producer and Consumer Subsidy Equivalent Rates---				Mkt. S. ---Budget Wedges (US \$/MT)---				Set-aside P.	
1989	DPSM	CSM	ESM	MSM	DPSM	CSM	ESM	MSM	PSE1P%	CSE1P%	PSE	CSE	MS	MBSE	EBSE	PRSE	Cons. Share US \$/MT CBSE S-SIDE SULTAX	
BF																		
PE																		
WH																		
SU																		
Summary of support (%):	Value share of-Prod.	Value share of-Cons.	-----Share of-----		-Source-		Summary of base information:		Million US \$	Base model spreadsheet -->				WH89b8E				
Meat & eggs	96.1	99.6	Prod. Support		Agric. Budget		Production Value		672	Exchange rates in:				WH89b8E				
			-Cons.		Transfer		Market Value		672	Model spreadsheet				1				
							Consumption Value		1082	Support spreadsheet				1				
Other crops	3.9	.4					Government Expenditures			Currency unit per US\$				US \$				
Animal Products	96.1	99.6					Producer Support			Base year				1989				
Crops, oilseeds	3.9	.4					Consumer Transfer											
All products	100.0	100.0					Total TDS Estimate		0									
							Last update		2/ 6/92	Base data				WH89b8E				
							Date printed		2/18/92									

[illegible]

CR	1989	BF	PK	ML	PM	DM	WH	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	CR	1989	BF	PK	ML	PM	DM	WH	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB
-----Base Quantity Data (1000 MT)-----		Prod. SUPPLY		Cons. DEMAND		P-C-E-I		NTRADE		Exports		Imports		World		Imports		Exports		Imports		Imports		Imports		Imports		Imports		Imports		Imports		Imports		Imports	
-----Base Price Data (US\$/MT)-----		World		Market		Producer		Trade share C.		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer		Consumer	
-----Base Values (M. US\$)-----		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.		Prod. Cons.	
-----Projection parameters		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.		G. Exp.	
-----Budget Wedges (US \$/MT)-----		Import		Export		Import		Export		Import		Export		Import		Export		Import		Export		Import		Export		Import		Export		Import		Export		Import		Export	
-----Set-aside P. Cons. Share US \$/MT		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.		Set-aside P.	
-----Trade D. M US\$ VIDS		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.		Trade D.	

Summary of support (%)	Support Measures	Value share of -Prod. -Cons.	Share of -Source- Prod. Support	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	Exchange rates in: Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data
Meat & eggs	PSE	18.4	23.3	Production Value	775	WH89OCR	WH89OCR	1	1	US \$	1989	WH89OCR
Dairy	CSW	12.6	16.0	Market Value	775							
Food crops	CSW	2.9	9.4	Consumption Value	1223							
Feed crops	CSW	11.3	8.0	Government Expenditures								
Oilseeds, prod.	CSW	41.7	37.5	Producer Support								
Other crops	CSW	13.0	5.9	Consumer Transfer	0							
Animal Products	CSW	31.1	39.3	Total TDS Estimate								
Crops, oilseeds	CSW	68.9	60.7									
All products	CSW	100.0	100.0	Last update	2/6/92							
				Date printed	2/18/92							



Supply Elasticity Matrix for --> WH89UES													Demand Elasticity Matrix for --> WH89UES													Shares of Product Going to Intermediate Demand for --> WH89UES												
1989													1989													1989												
SUPPLY ELASTICITIES													DEMAND ELASTICITIES													Final Dem. Share Elas.												
WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	SSM	SSO	SOM	SOO	Row	Final							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL	DFM							
BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	BF	PK	SBF	SPK	SML	SPM	SFL								

[illegible]

Supply El

BF PK ML PM

W N G R I S S M S S M O C L B

Demand EL      BF PK ML PE      玉石器系の8品目

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	Shares of	Supply-->
80	80	80
70	70	70
60	60	60
50	50	50
40	40	40
30	30	30
20	20	20
10	10	10
0	0	0

GT	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				-----Projection parameters & Price Trans. ELAS.-----				Product definition and mnemonic:	Trade D. M US\$ VIDS
	Prod. SUPPLY	P-C-E-I DEMAND	Exports	Imports	World MKPRICE	Market MKPRICE	Consumer MKPRICE	Trade share C. TORPRICE	Producer PRSHARE	BPVALUE	Cons. BCVALUE	GAEMS SUPROM INCLAS	ELAS.	ELAS.	ELAS.	ELAS.		
1989																		
BF	61	45	16	16	2567	2567	2567	2567	.55	157	210		.014	.56	.50		BF	Beef & veal
PK	14	14			2176	2176	4352	2176	.50	30	61		.017	.54	.50		PK	Pork
ML	1	1			2321	2321	4642	2321	.50	2	5		.008	.77	.50		ML	Mutton & Lamb
PM	83	83			1039	1039	1889	1039	.55	86	157		.029	.69	.50		PM	Poultry Meat
WH	34	194	-160	160	169	169	241	169	.70	6	47		.019	.40	.45		WH	Wheat
CN	1150	1300	-150	150	111	111	123	111	.90	128	160		.015	.12	.50		CN	Corn
CG	81	81			105	105	117	105	.90	9	9		.024	.14	.30		CG	O. Coarse Gr.
RI	27	40	-13	13	320	320	640	320	.50	9	26		.024	.36	.50		RI	Rice
SB	32	30	2	2	275	275	289	275	.95	9	9		.030	.10	.60		SB	Soybeans
SM	18	66	-48	55	247	247	309	247	.80	4	20		.030	.10	.60		SM	SoyMeal
SO	5	15	-10	10	431	431	862	431	.50	2	13		.030	.77	.60		SO	SoyOil
OS	61	61			630	630	700	630	.90	38	43		.008	.10	.60		OS	O. oilSeeds
OM	27	19	8	8	200	200	250	200	.80	5	5		.008	.10	.60		OM	O. Meals
OO	10	52	-42	42	774	774	1548	774	.50	8	80		.008	.79	.60		OO	Other oils
CT	41	14	27	27	1674	1674	3348	1674	.50	69	47		.004	.68	.50		CT	Cotton
SU	705	299	406	406	282	282	564	282	.50	199	169		.015	.43	.20		SU	Sugar (rfind.)
TB	8	2	6	1	3844	3844	7688	3844	.50	31	15		.012	.56	.50		TB	Tobacco
GT	-----Model Price Wedges (US \$/MT)-----				-----Model Price Wedges (%)-----				-----Producer and Consumer Subsidy Equivalent Rates-----				-----US \$/MT-----				---Budget Wedges (US \$/MT)---	
1989	DPSM	CSM	ESM	MSM	DPSM%	CSM%	ESM%	MSM%	% Internal Price	% World Price	PSE	CSE	MS	MSSE	EBSE	PBSE	Prod. Cons. Share US \$/MT	Set-aside P. Cons. Share US \$/MT
BF																		
PK																		
ML																		
PM																		
WH																		
CN																		
CG																		
RI																		
SB																		
SM																		
SO																		
OS																		
OM																		
OO																		
CT																		
SU																		
TB																		

Summary of support (%)	Support Measures PSE	Value share of -Prod. -Cons.	-----Share of----- Produce, Agric. Support, Budget Transfer	Summary of base information:	Million US \$	Base model spreadsheet --> WH89SGT	
						Support spreadsheet	Support spreadsheet
Meat & eggs		34.8	40.2	Production Value	791	Exchange rates in:	1
Food crops		1.8	6.7	Market Value	791	Model spreadsheet	1
Feed crops		17.2	15.8	Consumption Value	1075	Support spreadsheet	US \$
Oilseeds, prod.		8.5	15.8	Government Expenditures		Currency unit per US\$	1989
Other crops		37.7	21.5	Producer Support		Base year	
Animal Products		34.8	40.2	Consumer Transfer			
Crops, oilseeds		65.2	59.8	Total TDS Estimate	0		
All products		100.0	100.0	Last update	2/6/92	Base data	WH89SGT
				Date printed	2/18/92		

Supply Elasticity Matrix for --> WH89bHO													SUPPLY ELASTICITIES													Value (Million US\$) of Production Exports												
1989													1989													1989												
WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	ROW	Sum	BF	PK	Self Suffic. Ratio	Production	Exports																			
BF	-.07	-.01											-.30				1.36	87	23																			
PK	-.18	-.02											-.53				1.00	24																				
WH	-.05	-.05	-.05										-.12				.89	57																				
CN													-.13				1.00	7																				
CG	-.22	-.01	-.04										-.31				.89	15																				
RI	-.09	-.28	.58										-.45																									
SB	-.15	-.02		.45									-.05				.32	3																				
SM				-.38	.30	.13							-.05				1.50	1	1																			
SO				-.58	.30	.13							-.45				1.00	50																				
OS							.45						-.05				1.00																					
OM							-.38						-.05				1.00																					
OO							-.38		.43				-.05				1.00																					
CT								.43					-.49				1.00																					
SU										.49			-.22				1.12																					
TB											.30	.10					3.00																					
Demand Elasticity Matrix for --> WH89bHO													DEMAND ELASTICITIES													Product definition and immanonic:												
1989													1989													1989												
WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	ROW	Sum	BF	PK	Beef and veal	Pork																				
BF	-.80	.05											-.75																									
PK	.12	-1.10											-.98																									
WH	-.21	-.29	.10										-.11				WH																					
CN			.05										-.24				CN																					
CG													-.31				CG																					
RI			-.31										-.47				RI																					
SB				-.42									-.05				SB																					
SM					-.26	.11							-.39				SM																					
SO					-.39	-.90							-.70				SO																					
OS							-.44						-.05				OS																					
OM								-.41					-.41				OM																					
OO									-.80				-.80				OO																					
CT										-.50			-.50				CT																					
SU											-.30		-.30				SU																					
TB												-.20					TB																					
Shares of Product Going to Intermediate Demand for --> WH89bHO													Date printed 2/ 7/1992																									
Supply-->													Last Update 2/ 6/1992																									
WH	1												Base year ----->				1989																					
CN		1											Exchange rate (LC/US\$)				5																					
CG			1										Transmission elast.				.0180																					
SB				1									Income growth rate				.0195																					
SM					1								Population growth rate				89216																					
SO						1							Income (Million US\$)				59909																					
OS							1						Population (1000)				1489																					
OM								1					Per Capita Income (\$)				WH89bHO																					
OO									1				Model spreadsheet				WH89bHO																					
CT										1			Elasticities for -->				WH89bHO																					
SU											1																											
TB												1																										

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Supply Elasticity Matrix for --> W489bBH				1989		SUPPLY ELASTICITIES		Value (Million US\$) of Production Exports	
	PM	WH	SU	Row Sum	Self Suffic. Ratio				
PM	.60			.60	.86	6			
WH		.47		.27	.99				
SU			-.12	.30					
Demand Elasticity Matrix for --> W489bBH									
	PM	WH	SU	Row Sum	Product definition and immanonic:				
PM	-.90			-.90	PM	Poultry Meat			
WH		-.23		-.23	WH	Wheat			
SU			-.30	-.30	SU	Sugar (refined)			
Shares of Product Going to Intermediate Demand for --> W489bBH									
Supply-->	SBF	SPK	SNL	SPM	SPE	SOM	Final Dem. Share	Final Dem. Share	Final Dem. Share
WH				.08		.08	.92	-.20	WH
Feed Ratios (Total feed/animal prod.) SBF SPK SNL SPM SPE SOM .Feed mix percent by animal product.. SBF SPK SNL SPM SPE SOM ..Estimated protein percentage... SBF SPK SNL SPM SPE SOM Av. meal/grain price ratio = 10.0 Av. feed protein percent = 10.0									
							Date printed Last update Base year Exchange rate (LC/US\$) Transmission elast. Income growth rate Population growth rate Income (Million US\$) Population (1000) Per Capita Income (\$) Model spreadsheet	2/ 7/1992 2/ 6/1992 1989 5 .0180 .0195 89216 59909 1489 W489bBH	Elasticities for --> W489bBH

[illegible]





[illegible]

[illegible]

BD 1989  
 Trade D:  
 M US\$  
 VIDS

WH .019 .40 .45 WH Wheat

OM 1 1 .60 OM O. Meals  
 SU 2 -2 .20 SU Sugar (rfind.)

BD 1989  
 ---Model Price Wedges (US \$/MT)---  
 DPMW CSW ESW MSW  
 ---Model Price Wedges (%)---  
 DPMW% CSW% ESW% MSW%  
 ---Producer and Consumer Subsidy Equivalent Rates--- Mkt. S.  
 PSEI1P% CSEI1P% PSEI2P% CSEI2P% PSEI3P% CSEI3P% PSEI4P% CSEI4P%  
 ---US \$/MT---  
 PSE CSE MS  
 ---Budget Wedges (US \$/MT)---  
 Import Export  
 MBSE EBSE  
 ---Set-aside P.  
 Prod. Cons. Share US \$/MT  
 CBSE S-SIDE SUPTAX

WH

OM

SU

Summary of support (%):	Support Measures	Value share of -Prod.	Share of -Source- Prod. Support	Summary of base information:	Million US \$	Base model spreadsheet Support spreadsheet	WH89r8D WH89r8D
Oilseeds, prod. Other crops	PSE	.8	.2	Production Value Market Value Consumption Value Government Expenditures Producer Support Consumer Transfer Total TDS Estimate	1	Exchange rates in: Model spreadsheet Support spreadsheet Currency unit per US\$ Base year	1 1 US \$ 1989
Crops, oilseeds		97.8	18.0				
All products		1.4	81.8		0		
		100.0	100.0	Last update	2/6/92	Base data	WH89r8D
		100.0	100.0	Date printed	2/18/92		

[illegible]

1989	DEMAND ELASTICITIES	Row	S-D	Product definition and Imputation:
Demand Elasticity Matrix for --> W4896CU				

[illegible]

Shares of Product Going to Intermediate Demand for --> WH8900U										Date printed	
Supply-->										Last update	
SBF	SPK	SML	SPM	SPE	SDM	SSD	SDM	SSD	SDM	Base year ----->	
Final Final											
Row Dem. Dem.											
Sum Share Elas.											
WH										Feed Ratios (Total feed/animal prod.)	
ON										SBF SPK SML SPM SPE	
CG										3.78	
										.Feed mix percent by animal product.	
										SBF SPK SML SPM SPE	
										WH	
										ON	
										CG	
										SM	
										ON	
SB										..Estimated protein percentage...	
SM										SBF SPK SML SPM SPE	
										23.6	
OS										Av. meal/grain price ratio =	1.98
OM										Av. feed protein percent =	23.6

[illegible]



[illegible]

DR	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Trade share C.	Producer	Base Values (M. US\$)	Projection parameters	Product definition and immanic:	Trade D. M US\$ VIDS
			Cons. DEMAND	P-C-E-I	Imports	World	MRPRICE	MRPRICE	MRPRICE	MRPRICE
BF	60	48	12	12	12	2567	2567	2567	2567	56
PK	14	14	5	5	5	2176	2176	2176	2176	50
ML	49	44				2321	2321	2321	2321	50
PM	104	108			4	1039	1039	1039	1039	50
PE	45	46			1	1696	1696	1696	1696	50
DM	360	360				272	272	272	272	50
WH	20	230	-230	-230	230	169	169	169	169	45
CH	24	378	-353	-353	353	111	111	111	111	50
CG	255	275	-40	-40	40	320	320	320	320	50
RI	17	114	-100	-100	100	247	247	247	247	50
SB	14	68	-65	-65	65	431	431	431	431	50
SM	25	25	-6	-6	6	630	630	630	630	50
SO	7	13	-9	-9	9	200	200	200	200	50
OS	18	27				774	774	774	774	50
CO	735	185	550	550	550	1674	1674	1674	1674	50
CT	23	1	22	22	22	282	282	282	282	50
SU						3844	3844	3844	3844	50
TB										50

DR	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Trade share C.	Producer	Base Values (M. US\$)	Projection parameters	Product definition and immanic:	Trade D. M US\$ VIDS
			Cons. DEMAND	P-C-E-I	Imports	World	MRPRICE	MRPRICE	MRPRICE	MRPRICE
BF	60	48	12	12	12	2567	2567	2567	2567	56
PK	14	14	5	5	5	2176	2176	2176	2176	50
ML	49	44				2321	2321	2321	2321	50
PM	104	108			4	1039	1039	1039	1039	50
PE	45	46			1	1696	1696	1696	1696	50
DM	360	360				272	272	272	272	50
WH	20	230	-230	-230	230	169	169	169	169	45
CH	24	378	-353	-353	353	111	111	111	111	50
CG	255	275	-40	-40	40	320	320	320	320	50
RI	17	114	-100	-100	100	247	247	247	247	50
SB	14	68	-65	-65	65	431	431	431	431	50
SM	25	25	-6	-6	6	630	630	630	630	50
SO	7	13	-9	-9	9	200	200	200	200	50
OS	18	27				774	774	774	774	50
CO	735	185	550	550	550	1674	1674	1674	1674	50
CT	23	1	22	22	22	282	282	282	282	50
SU						3844	3844	3844	3844	50
TB										50

Summary of support (%)	Support Measures	Value share of -Prod.	Share of -Source	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data
Meat & eggs	PSE	48.5	52.1	Production Value	997	WH89DOR	WH89SOR	Model spreadsheet	1	1	US \$	1999	WH89DOR
Dairy	CSE	9.8	12.4	Market Value	997			Support spreadsheet	1	1			
Food crops	ESW	7.5	14.7	Consumption Value	1580			Currency unit per US\$					
Feed crops	MSW	3.5	3.1	Government Expenditures				Base year					
Oilseeds, prod.	MSW	3.6	10.2	Producer Support									
Other crops	MSW	30.0	7.5	Consumer Transfer									
Animal Products		58.3	64.5	Total TDS Estimate	0								
Crops, oilseeds		41.7	35.5										
All products		100.0	100.0	Last update	2/ 6/92								
				Date printed	2/ 7/92								



GU 1989 -----Base Quantity Data (1000 MT)-----  
 Prod. Cons. P-C-E-I Exports Imports  
 SUPPLY DEMAND NTRADE EXPORTS IMPORTS

-----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WOPRICE MKPRICE PRPRICE CNRPRICE

-----Trade share C.  
 TDRPRICE PRSHARE

-----Base Values (M. US\$)---  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BPVALUE BOVALUE CAEMS SUPOROW INCELAS PTELAS

Product definition and mnemonic:  
 Trade D. M US\$ VIDS

WH .019 .40 .45 WH Wheat

SU 97 10 87 87 282 282 282 282 564 282 27 6 .015 .43 .20 SU Sugar (rfind.)

GU 1989 --Model Price Wedges (US \$/MT)---  
 DPM CSM ESM MSW  
 ---Model Price Wedges (%)---  
 DPM% CSM% ESM% MSW%  
 ---Producer and Consumer Subsidy Equivalent Rates---  
 Mkt. S. Import Export Prod. Cons. Share US \$/MT  
 PSE CSE MS MSSE EBSE PBSE CBSE S-SIDE SUPTAX

WH

SU

Summary of support (%):

Support Measures CSE  
 PSE  
 Value share of-  
 -Prod. -Cons.  
 ---Share of---  
 -Source-  
 -Agric. -Consumer  
 -Support -Transfer

Summary of base information:  
 Production Value  
 Market Value  
 Consumption Value  
 Government Expenditures  
 Producer Support  
 Consumer Transfer  
 Total TDS Estimate

Million US \$

27  
27  
6  
0

Other crops

Crops, oilseeds

All products

100.0 100.0  
 100.0 100.0  
 100.0 100.0

Base model spreadsheet --> WH89GU  
 Support spreadsheet -----> WH89SU

Exchange rates in:  
 Model spreadsheet 1  
 Support spreadsheet 1  
 Currency unit per US\$ US \$  
 Base year -----> 1989

Base data -----> WH89GU

Last update 2/6/92  
 Date printed 2/18/92

Supply Elasticity Matrix for --> WH89DHA													1989		Value (Million US\$) of	
Supply Elasticities													BF		Production Exports	
WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row	Sum	Self Suffic. Ratio	28
BF	-.10	-.01	-.04												BF	1.00
WH	-.47	-.05	-.05	-.05									12	1.00	1.00	19
CN		-.22	-.01	-.04									14	1.00	1.00	12
CG			-.02	-.28									20	1.00	1.00	22
RI			-.03	-.03									45	1.00	1.00	
SB					-.45								05	1.00	1.00	3
SM					-.50	-.20							05	1.00	1.00	
SO						-.35							05	1.00	1.00	
OS							-.45						05	1.00	1.00	
OM							-.39	-.15					05	1.00	1.00	
OO							-.39	-.15	-.29				05	1.00	1.00	
CT									-.49				05	1.00	1.00	1
SU										-.30			15	1.00	1.00	3
TB											-.10		10	1.00	1.00	4
																2
Demand Elasticity Matrix for --> WH89DHA													1989		Product definition and mnemonic:	
Demand Elasticities													BF		Beef and veal	
WH	-.23	-.20	-.24	-.65	-.48	-.26	-.90						Row	Sum	S-D	
CN		.01											-.80	1.06	BF	
CG																
RI																
SB																
SM																
SO																
OS																
OM																
OO																
CT																
SU																
TB																
Shares of Product Going to Intermediate Demand for --> WH89DHA													1989		Date printed	
Supply-->													Base year		Last update	
WH	.15												Exchange rate (LC/US\$)		2/ 7/1992	
CN	.02												Transmission elast.		2/ 6/1992	
CG	.20												Income growth rate		1989	
SB													Population growth rate		.0180	
SM													Income (Million US\$)		89216	
OS													Population (1000)		59909	
OM													Per Capita Income (\$)		1489	
OO													Model spreadsheet		WH89DHA	
CT													Elasticities for -->		WH89DHA	
SU																
TB																

HA	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product definition and immanic:		Trade D.
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-1 EXPORTS	Imports	World PRICE	Market PRICE	Producer PRICE	Trade share C. PRSHARE	Prod. Cons. BVALUE	Cons. BVALUE	G. Exp. GAE\$	Sup. INCELAS	Elast. PIETAS	Prod. definition and immanic:	Trade D.				
BF	11	11			2567	2567	2567	.55	28	51	.014	.56	.50	BF	Beef & veal				
WH	170	190	-190		169	169	169	.70	19	46	.019	.40	.45	WH	Wheat				
CN	110	111			111	111	111	.90	12	21	.015	.12	.50	CN	Co. Coarse Gr.				
CG	70	111			105	105	105	.90	22	13	.034	.14	.30	CG	Rice				
RI		111	-111		320	320	320	.50		116	.024	.36	.50	RI	Soybeans				
SB		8	-8		275	275	275	.95		2	.030	.10	.60	SB	SoyMeal				
SM		2	-2		247	247	247	.80		1	.030	.10	.60	SM	SoyOil				
SO		10	-10		431	431	431	.50	3	9	.030	.10	.60	SO	OilSeeds				
OS	4				630	630	630	.90		3	.008	.10	.60	OS	Other Oils				
OM	2	30	-30		200	200	200	.80	1	48	.008	.79	.60	OM	Cotton				
CO	1				774	774	774	.50	3	7	.004	.68	.50	CO	Sugar (rfind.)				
CT	2	40	-32	8	1674	1674	1674	.50	11	41	.015	.43	.20	CT	Tobacco				
SU	40		-1		282	282	282	.50	4	15	.012	.56	.50	SU					
TB	1				3844	3844	3844	.50						TB					
HA	---Model Price Wedges (US \$/MT)---				---Model Price Wedges (%)---				---Producer and Consumer Subsidy Equivalent Rates--- Mkt. S.				---Budget Wedges (US \$/MT)---				Set-aside P.		
1989	DPSW	CSW	ESW	MSW	DPSW%	CSW%	ESW%	MSW%	PSE	CSE	MS	MSSE	EBSE	Prod. Cons. Share US \$/MT	CBSE	S-SIDE	SUPTRAX		
BF																			
WH																			
CN																			
CG																			
RI																			
SB																			
SM																			
SO																			
OS																			
OM																			
CO																			
CT																			
SU																			
TB																			
Summary of support (%):	Value share of-Prod.				Share of-Prod. Support				Summary of base information:				Base model spreadsheet --->				WH89bHA		
Meat & eggs					27.4	13.8			103	103				Exchange rates in:					
Food crops					21.7	43.4			103	103				Model spreadsheet			1		
Feed crops					20.5	9.1			372	372				Support spreadsheet			1		
Oilseeds, prod.					3.6	16.9								Currency unit per US\$			US \$		
Other crops					17.9	16.8								Base year			1989		
Animal Products					27.4	13.8			0										
Crops, oilseeds					72.6	86.2													
ALL products					100.0	100.0								Base data			WH89bHA		





JM	1989	Prod. SUPPLY	Base Quantity Data (1000 MT) P-C-E-I DEMAND	Exports EXPORTS	Imports IMPORTS	World WPRICE	Base Price Data Market MPRICE	Producer Trade share C. PRSHARE	Base Values (M. US\$) Prod. Cons. BVALUE CVALUE	Projection parameters & Price Trans. Elast. PTELAS	Product definition and immanonic:	Trade D. M US\$ VTDS			
PM	27	54	-27	27	1039	1623	1623	1623	44	159	.029	.69	.50	PM	Poultry Meat
WH	3	205	-205	205	169	169	169	169	.70	49	.019	.40	.45	WH	Wheat
CN	7	193	-190	190	111	111	111	111	.90	24	.015	.12	.50	CN	Corn
CG		71	-71	71	105	105	105	105	.50	1	.024	.36	.50	CG	O. Coarse Gr.
RI		57	-57	57	320	320	320	320	.50	84	.030	.10	.60	RI	Rice
SB	48	64	-16	16	247	247	247	247	.80	17	.030	.10	.60	SB	Soybeans
SM	11	14	-3	3	431	431	431	431	.50	20	.030	.10	.60	SM	SoyMeal
SO	3	3			630	630	630	630	.90	12	.030	.10	.60	SO	SoyOil
OS	1	1			200	200	200	200	.80	2	.008	.10	.60	OS	O. oil Seeds
OO		10	-10	10	774	774	774	774	.50	15	.008	.10	.60	OO	O. Meals
SU	192	133	59	132	282	275	275	275	.50	73	.015	.43	.20	SU	Sugar (rfind.)
TB	2	2			3844	3844	3844	3844	.50	15	.012	.56	.50	TB	Tobacco
JM	1989	DPSM	Model Price Wedges (US \$/MT) ESM	Model Price Wedges (US \$/MT) MSM	Model Price Wedges (%) CSM	Model Price Wedges (%) ESM	Model Price Wedges (%) NSM	Producer and Consumer Subsidy Equivalent Rates Internal Price PSE1P%	Subsidy Equivalent Rates World Price CSEMP%	US \$/MT CSE	Mkt. S. MS	Import MBSE	Export EBSE	Wedges PBSE	Set-aside P. Cons. Share US \$/MT CBSE S-SIDE SUPTAX
PM															
WH	174	-174		29.5	-14.7			29.5	-14.7	54.4	-54.4	174	-174	174	
CN															
CG															
RI															
SB															
SM															
SO															
OS															
CN															
OO															
SU															
TB															
Summary of support (%):															
Meat & eggs				35.3	33.8			Source- Produc. Support	Summary of base information: Production Value	Million US \$		Base model spreadsheet Support spreadsheet	Base model spreadsheet Support spreadsheet	WH89JUM WH89JUM	
Food crops								Agric. Budget	Market Value	124		Exchange rates in: Model spreadsheet	Model spreadsheet		
Feed crops		22.9	-9.3		28.3	99.9	78	Consumer Transfer	Consumption Value	124		Support spreadsheet	Support spreadsheet	1	
Oilseeds, prod.				9	5.2				Government Expenditures	472		Currency unit per US\$	Currency unit per US\$	5.745	
Other crops				15.1	14.0				Producer Support			Base year	Base year	JM01 \$	
Animal Products				48.7	18.7				Consumer Transfer	-12				1989	
Crops, oilseeds				35.3	33.8				Total TDS Estimate	3					
				64.7	66.2										
All products				100.0	100.0				Last update Date printed			Base data	Base data		
									1/15/92 2/18/92						

Supply Elasticity Matrix for --> WH89bWA										SUPPLY ELASTICITIES										Value (Million US\$) of Production Exports																																																	
1989										WH										Self Suffic. Ratio																																																	
										SU										Row Sum																																																	
WH										.47										.27										.99																																							
																				-.20																																																	
SU																				.30										.30										1.17										4										1									
Demand Elasticity Matrix for --> WH89bWA										DEMAND ELASTICITIES										Product definition and immanonic:																																																	
1989										WH										Row Sum																																																	
										SU										S-D Sum																																																	
										.20										-.20										.47										Wheat																													
WH																																																																					
																				-.30										-.30										.60										Sugar (refined)																			
SU																																																																					
Shares of Product Going to Intermediate Demand for --> WH89bWA										Final Dem. Share										Date printed Last update																																																	
Supply-->										SSM SSO SOM SDO										Base year -----> 2/ 6/1992																																																	
										1.00 -.20										1989																																																	
																				Exchange rate (LC/US\$) .0180																																																	
																				Transmission elast. .0195																																																	
																				Income growth rate .0180																																																	
																				Population growth rate .0195																																																	
																				Population (1000) 89216																																																	
																				Income (Million US\$) 59909																																																	
																				Per Capita Income (\$) 1489																																																	
																				Model spreadsheet ----> WH89bWA																																																	
..Estimated protein percentage...										Elasticities for --> WH89bWA																																																											
SBF SPK SNL SPH SPE SDM										Av. meal/grain price ratio = <--																																																											
										Av. feed protein percent = <--																																																											

MA 1989  
 -----Base Quantity Data (1000 MT)-----  
 Prod. Cons. P-C-E-I Exports Imports  
 SUPPLY DEMAND NITRADE EXPORTS IMPORTS  
 -----Base Price Data (US\$/MT)-----  
 World Market Producer Trade share C.  
 WOPRICE MKPRICE PRPRICE CNPRICE TDRPRICE PRSHARE  
 -----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BPVALUE BCVALUE GAE\$ SUPGROW INCELAS PTELAS  
 -----Projection parameters-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BPVALUE BCVALUE GAE\$ SUPGROW INCELAS PTELAS  
 Product definition and immanic: Trade D.  
 M US\$ VIDS

WH .019 .40 .45 WH Wheat

SJ 14 12 2 2 282 282 282 282 564 282 .50 4 7 .015 .43 .20 SJ Sugar (rfind.)

MA 1989  
 -----Model Price Wedges (US \$/MT)-----  
 DPSW CSM ESW MSW  
 -----Model Price Wedges (%)-----  
 DPSW% CSM% ESW% MSW%  
 -----Producer and Consumer Subsidy Equivalent Rates-----  
 % Internal Price % World Price  
 PSE1P% CSE1P% PSE2P% CSE2P%  
 -----US \$/MT-----  
 PSE CSE MS  
 -----Budget Wedges (US \$/MT)-----  
 Import Export Prod. Cons. Share US \$/MT  
 MBSE EBSE PBSE CBSE S-SIDE SUPTAX  
 Set-aside P.

WH

SJ

Summary of support (%):  
 Support Measures CSE  
 PSE  
 Value share of-  
 -Prod. -Cons.  
 -----Share of-----  
 Prod. Agric. Consumer  
 Support Budget Transfer

Summary of base information:  
 Production Value  
 Market Value  
 Consumption Value  
 Government Expenditures  
 Producer Support  
 Consumer Transfer  
 Total TDS Estimate  
 Million US \$  
 4  
 4  
 7  
 0

Other crops

Crops, oilseeds

All products

Last update 2/6/92  
 Date printed 2/18/92

Base model spreadsheet --> WH89DMA  
 Support spreadsheet --> WH89DMA  
 Exchange rates in:  
 Model spreadsheet 1  
 Support spreadsheet 1  
 Currency unit per US\$ US \$  
 Base year -----> 1989  
 Base data -----> WH89DMA

Supply Elasticity Matrix for --> W489bW				1989	SUPPLY ELASTICITIES			Value (Million US\$) of Production Exports	
					WH	SM	SO	SU	Self Suffic. Ratio
WH					.47			-.20	.27
SM						.20	.35		.55
SO						.20	.35		.55
SU					-.12			.30	.18
Demand Elasticity Matrix for --> W489bW									
				1989	DEMAND ELASTICITIES			Product definition and inmanonic:	
					WH	SM	SO	Row Sum	S-D Sum
WH					-.20			-.22	.49
SM						-.20		-.20	.75
SO							-.90	-.90	1.45
SU								-.30	.48
Shares of Product Going to Intermediate Demand for --> W489bW									
Supply-->					SSM	SSO	SDM	S00	Row Sum
WH					1.00				1.00
SM									1.00
Feed Ratios (Total feed/animal prod.)									
					SBF	SPK	SML	SPM	SPE
					-.20	.75	SM	SO	SoyMeal
					-.90	1.45	SO	SoyOil	
Date printed 2/ 7/1992									
Last update 2/ 6/1992									
Base year -----> 1989									
Exchange rate (LC/US\$) 1									
Transmission elast. .5									
Income growth rate .0180									
Population growth rate .0195									
Income (Million US\$) 89216									
Population (1000) 59909									
Per Capita Income (\$) 1489									
Model spreadsheet --> W489bW									
Elasticities for --> W489bW									

NN 1989  
 -----Base Quantity Data (1000 MT)-----  
 Prod. Cons. P-CE-I Exports Imports  
 SUPPLY DEMAND NTRADE EXPORTS IMPORTS  
 -----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WOPRICE MOPRICE PPRPRICE CNPRICE  
 -----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BVALUE BCVALUE GABH\$ SUPGROW INCELAS PTELAS  
 ---Projection parameters  
 Trade D.  
 M US\$  
 VTDS

WH	169	169	169	169	241	169	.70	.019	.40	.45	WH	Wheat
SM	1	-1	1	247	309	247	.80				SM	SoyMeal
SO	8	-8	8	431	862	431	.50				SO	SoyOil
SU	7	-7	7	282	564	282	.50				SU	Sugar (rfind.)

NN 1989  
 -----Model Price Wedges (US \$/MT)-----  
 DPSM CSW ESW MSW  
 -----Model Price Wedges (%)-----  
 DPSM% CSW% ESW% MSW%  
 -----Producer and Consumer Subsidy Equivalent Rates-----  
 Mkt. S. ---Budget Wedges (US \$/MT)--- Set-aside P.  
 Import Export Prod. Cons. Share US \$/MT  
 MSE EBSE PBSE CBSE S-SIDE SUPTAX

WH	169	282	282	282	282	282	.50					
SM	1	247	247	247	309	247	.80					
SO	8	431	431	431	862	431	.50					
SU	7	282	282	282	564	282	.50					

Summary of support (%):	Support Measures	Value share of-Prod.	Share of-Prod.	Source-Product.	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	Exchange rates in:	Model spreadsheet	Support spreadsheet	Currency unit per US\$	Base year	Base data
Oilseeds, prod.	PSE	-Prod.	Prod.	Agric.	Production Value	11	Base model spreadsheet	Support spreadsheet	Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data
Other crops	CSE	-Cons.	Support	Budget	Market Value				Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data
Crops, oilseeds				Transfer	Consumption Value				Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data
All products					Government Expenditures				Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data
					Producer Support				Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data
					Consumer Transfer				Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data
					Total TDS Estimate				Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data
					Last update				Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data
					Date printed				Model spreadsheet	Support spreadsheet	Support spreadsheet	US \$	1989	Base data



Supply Elasticity Matrix for --> W489b5C										1989	SUPPLY ELASTICITIES					Value (Million US\$) of Production Exports				
											WH	OS	OM	OO	SU	Row Sum	Self Suffic. Ratio			
WH											.47				-.20	.27	WH	.99		
OS												.45				.45	OS	1.00	3	
OM												-.29	.05	.29		.05	OM	2.00		
OO												-.29	.05	.29		.05	OO	1.50	2	
SU															.30	.18	SU		1	
Demand Elasticity Matrix for --> W489b5C										1989	DEMAND ELASTICITIES					Product definition and mnemonic:				
											WH	OS	OM	OO	SU	Row Sum	S-D Sum			
WH											-.20					-.22	-.49	WH	Wheat	
OS												-.28	.03	.19		-.05	.50	OS	Other oilSeeds	
OM													-.20			-.20	.25	OM	Other Meals	
OO														-.80		-.80	.85	OO	Other Oils	
SU															-.30	-.30	.48	SU	Sugar (refined)	
Shares of Product Going to Intermediate Demand for --> W489b5C																Date printed 2/ 7/1992				
Supply-->											SBF	SPK	SNL	SPM	SPE	SDM	Final Dem. Share	Last update 2/ 6/1992		
WH																	1.00	Base year ----->	1989	
																		Exchange rate (LC/US\$) 1		
																		Transmission elast. .5		
																		Income growth rate .0180		
																		Population growth rate .0195		
																		Income (Million US\$) 89216		
																		Population (1000) 59909		
																		Per Capita Income (\$) 1489		
																		Model spreadsheet ---->	W489b5C	
OS																				
OM																				
																</				

[illegible]



ST 1989  
 Prod. SUPPLY  
 Cons. DEMAND  
 P-CE-E-1  
 Exports EXPORTS  
 Imports IMPORTS  
 ---Base Quantity Data (1000 MT)---  
 ---Base Price Data (US\$/MT)---  
 World Market Producer Consumer  
 WOPRICE MKPRICE PRPRICE CNPRICE  
 ---Base Values (M. US\$)---  
 G. Exp. Cons. Prod. BCVALUE  
 GAEXP SUPGROW INCELAS  
 ---Projection parameters  
 & Price Trans. Elast. PTELAS  
 Product definition and mnemonic: MH  
 Trade D. M US\$ VTDS

MH  
 169 169 169 241 169 .70  
 .019 .40 .45 MH MHHeat

OS  
 2 2  
 630 630 630 700 630 .90 1 1  
 .008 .008 .008  
 -.10 .60 OS O. oilSeeds

ST 1989  
 --Model Price Wedges (US \$/MT)--  
 DPSM CSW ESW MSW  
 ---Model Price Wedges (%)---  
 DPSM% CSW% ESW% MSW%  
 ---Producer and Consumer Subsidy Equivalent Rates---  
 PSE CSE CSEMP% PSEMP% CSEMP%  
 ---US \$/MT---  
 PSE CSE MS  
 ---Budget Wedges (US \$/MT)---  
 Import Export Prod. Cons. Set-aside P.  
 MBSE EBSE PBSE CBSE S-SIDE SUPTAX

MH

OS

Summary of support (%):	Support Measures PSE	Value share of- -Prod. -Cons.	Share of- Prod. Support	Source- Agric. Budget Transfer	Summary of base information:	Million US \$	Base model spreadsheet ---> Support spreadsheet ----->	WH89bst WH89bst
Oilseeds, prod.		.1	.2		Production Value	1		1
					Market Value	1	Exchange rates in:	1
					Consumption Value	1	Model spreadsheet	1
					Government Expenditures		Support spreadsheet	
		99.9	99.8		Producer Support		Currency unit per US\$	US \$
					Consumer Transfer		Base year ----->	1989
					Total TDS Estimate	0		
Crops, oilseeds		100.0	100.0		Last update		Base data ----->	WH89bst
All products		100.0	100.0		Date printed	2/ 6/92 2/18/92		

[illegible][illegible]

TT 1989

-----Base Quantity Data (1000 MT)-----  
 Prod. Cons. P-C-E-I Exports Imports  
 SUPPLY DEMAND NTRADE

-----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WPRICE MKPRICE PRPRICE CNPRICE

-----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BVALUE BOVALUE BVOLUME PIELAS

-----Projection parameters  
 GAE\$ SUPOR\$ INELAS

Product definition and immanonic:  
 Trade D.  
 M US\$  
 VIDS

WH	CN	RI	SB	SM	SO	OS	OM	OO	SU	TB	TT	1989
185	115	80	100	55	18	5	1	5	56	1	97	
-185	-110	-60	-100	25	-1	-2	41	-1				
169	111	320	275	247	431	630	200	774	282	3844		
169	111	320	275	247	431	630	200	774	282	3844		
169	111	320	275	247	431	630	200	774	282	3844		
241	123	640	289	309	862	700	250	1548	564	7688		
169	111	320	275	247	431	630	200	774	282	3844		
45	14	51	29	17	16	4	8	32	8			
.019	.015	.024	.030	.030	.030	.008	.008	.008	.015	.012		
.40	.12	.36	.10	.10	.77	.10	.10	.79	.43	.56		
.45	.50	.50	.60	.60	.60	.60	.60	.60	.20	.50		
WH	CN	RI	SB	SM	SO	OS	OM	OO	SU	TB		
Wheat	Com	Rice	Soybeans	SoyMeal	SoyOil	O. oilSeeds	O. Meals	Other Oils	Sugar (rfind.)	Tobacco		
-----Budget Wedges (US \$/MT)-----	Prod. Cons. Share US \$/MT	Import Export	MSSE	EBSE	PSSE	CSSE	S-SIDE	SUP/TAX	Set-aside P.			

WH	CN	RI	SB	SM	SO	OS	OM	OO	SU	TB	TT	1989
185	115	80	100	55	18	5	1	5	56	1	97	
-185	-110	-60	-100	25	-1	-2	41	-1				
169	111	320	275	247	431	630	200	774	282	3844		
169	111	320	275	247	431	630	200	774	282	3844		
169	111	320	275	247	431	630	200	774	282	3844		
241	123	640	289	309	862	700	250	1548	564	7688		
169	111	320	275	247	431	630	200	774	282	3844		
45	14	51	29	17	16	4	8	32	8			
.019	.015	.024	.030	.030	.030	.008	.008	.008	.015	.012		
.40	.12	.36	.10	.10	.77	.10	.10	.79	.43	.56		
.45	.50	.50	.60	.60	.60	.60	.60	.60	.20	.50		
WH	CN	RI	SB	SM	SO	OS	OM	OO	SU	TB		
Wheat	Com	Rice	Soybeans	SoyMeal	SoyOil	O. oilSeeds	O. Meals	Other Oils	Sugar (rfind.)	Tobacco		
-----Budget Wedges (US \$/MT)-----	Prod. Cons. Share US \$/MT	Import Export	MSSE	EBSE	PSSE	CSSE	S-SIDE	SUP/TAX	Set-aside P.			

Summary of support (%):	Support Measures PSE	Value share of -Prod. -Cons.	Share of Prod. Support	Source- Agric. Budget Transfer	Summary of base information:	Million US \$	Base model spreadsheet -->	Support spreadsheet ----->	WH89bTT
Food crops	9.5	43.0	43.0	43.0	Production Value	68	Model spreadsheet	Support spreadsheet	1
Feed crops	8.8	6.4	6.4	6.4	Consumption Value	223	Support spreadsheet	Support spreadsheet	1
Oilseeds, prod.	49.1	33.0	33.0	33.0	Government Expenditures		Currency unit per US\$	Currency unit per US\$	US \$
Other crops	40.6	17.6	17.6	17.6	Producer Support		Base year	Base year	1989
					Consumer Transfer				
					Total TDS Estimate	0			
Crops, oilseeds	100.0	100.0	100.0	100.0	Last update	2/ 6/92	Base data ----->	Base data ----->	WH89bTT
All products	100.0	100.0	100.0	100.0	Date printed	2/18/92			





BO	-----Base Quantity Data (1000 MT)-----										-----Base Price Data (US\$/MT)-----										-----Base Values (M, US\$)-----										---Projection parameters										Product definition and mnemonic										Trade D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I	Exports	Imports	World	Market	MRPRICE	MRPRICE	PRPRICE	PRPRICE	Consumer	Consumer	CNPRICE	TDPRICE	Trade share C.	Producer	BPVALUE	GAEN\$	SUPROW	INCELAS	PTELAS	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas	Elas

Supply Elasticity Matrix for --> WH89BCL															
1989															
SUPPLY ELASTICITIES															
Row	Sum	TH	SU	CT	CO	OM	OS	SO	SM	SB	RI	CG	CH	DP	Value (Million US\$) of Production Exports
BF	.45														552
PK	.50														120
ML	.55														42
PM															16
PE	.03														
DM	.45														
DB	.20														
DC	.02														
DP	.16														
CH	.38														
CG	.33														
CH	.19														
CG	.11														
RI	.55														
CG	.02														
SM	.20														
SB	.20														
SO	.35														
OM	.60														
OS	.49														
CO	.24														
CT	.30														
SU	.30														
TH	.20														

Demand Elasticity Matrix for --> WH89BCL															
1989															
DEMAND ELASTICITIES															
Row	Sum	TH	SU	CT	CO	OM	OS	SO	SM	SB	RI	CG	CH	DP	Product definition and mnemonic:
BF	-.62														Beef and veal
PK	.13														Pork
ML	.54														Mutton and Lamb
PM	.13														Poultry Meat
PE	-.50														Poultry, Eggs
DM	-.14														Dairy - Fluid Milk
DB	.09														Dairy - Butter
DC	.04														Dairy - Cheese
DP	.88														Dairy - milk Powder
CH	.20														Wheat
CG	.14														Corn
CH	.08														other Coarse Grains
RI	.10														Rice
CG	.05														Soybeans
SM	.43														SoyMeal
SB	.01														SoyOil
SO	.99														Other oilSeeds
OM	.21														Other Meals
OS	.05														Other Oils
CO	.04														Cotton
CT	.20														Sugar (refined)
SU	.20														Tobacco
TH	.20														

Shares of Product Going to Intermediate Demand for --> WH89BCL															
1989															
SUPPLY-->															
Row	Sum	TH	SU	CT	CO	OM	OS	SO	SM	SB	RI	CG	CH	DP	Date printed
BF	.33														2/3/1992
PK	.16														1/1/1992
ML	.08														Last update
PM	.31														Base year
PE	.26														Exchange rate (LC/US\$)
DM	.22														Transmission elast.
DB	.15														Income growth rate
DC	.01														Population growth rate
DP	.02														Income (Million US\$)
CH	.30														Population (1000)
CG	.17														Per Capita Income (\$)
CH	.83														Model spreadsheet
RI	.26														WH89BCL
CG	.30														Elasticities for --> WH89BCL

[illegible]

Supply Elasticity Matrix for --> W489b00																						1989		SUPPLY ELASTICITIES										Self Suffic. Ratio		Value (Million US\$) of Production Exports	
	BF	PK	ML	PM	PE	DM	D8	DC	WH	CN	CG	RI	SB	SM	SO	OS	OM	CO	CT	SU	TB	ROW SUM															
BF																						.45	BF	1.01	1902	23											
PK	.45																					.43	PK	1.00	305												
ML	-.01	.50																				.53	ML	1.00	30												
PM			.55																			.45	PM	1.00	302												
PE				.55																		.44	PE	1.00	508												
DM				-.01	.50																	.46	DM	1.00	982												
D8	.04					.45																.05	D8	1.00	72												
DC						-.07	.20															.05	DC	1.00	295												
WH						-.10	-.02	.17														.13	WH	.11	18												
CN						-.05			.38													.22	CN	.99	128												
CG						-.05			-.01													.42	CG	.90	172												
RI						-.06			-.04													.44	RI	1.03	337	11											
SB						-.06			-.01													.35	SB	.81	72												
SM										.55												.05	SM	1.00	52												
SO										-.37												.05	SO	.64	21												
OS										-.37												.50	OS	1.00	148												
OM										-.10												.05	OM	.83	21												
CO											.12											.05	CO	.00	221												
CT																						.05	CT	1.42	176	67											
SU																						.30	SU	1.29	413	38											
TB																						.20	TB	1.56	96												

Demand Elasticity Matrix for --> W489b00																							1989		DEMAND ELASTICITIES										Product definition and mnemonic:	
	BF	PK	ML	PM	PE	DM	D8	DC	WH	CN	CG	RI	SB	SM	SO	OS	OM	CO	CT	SU	TB	Row Sum	S-D Sum													
BF																								Beef and veal												
PK	-.62																							Pork												
ML	.17	-.90																						Mutton and Lamb												
PM	.19	.22	-.45																					Poultry Meat												
PE				-.85																				Poultry, Eggs												
DM					-.50																			Dairy - fluid Milk												
D8						-.14		.02										.25						Dairy - Butter												
DC							-.80	.10																Dairy - Cheese												
							.02	-.60																												
WH									-.20															Wheat												
CN										.10				.02			.01							Corn												
CG										.04		.10		.04			.02							other Coarse Grains												
RI									.04	-.03	-.42	-.40												Rice												
SB										.03			-.34	.21	.08									Soybeans												
SM										.13			-.49	.27	.09		.05							SoyMeal												
SO											.04					-.65	.75							SoyOil												
OS							.07										.54							Other oilSeeds												
OM											.05		.10			-.49								Other Meals												
CO							.05			.13								-.99						Other Oils												
CT																			-.20					Cotton												
SU							.05													-.20				Sugar (refined)												
TB																				-.20				Tobacco												

Shares of Product Going to Intermediate Demand for --> W489b00														Date printed		
Supply-->														Last update		
DM	WH	CN	CG	SB	SPK	SML	SPM	SPE	SOM	SOD	SSD	SSM	SSO	Row Sum	Final Dem. Share	Final Dem. Elast.
														.59	.41	-.20
														.01	.99	-.20
					.01	.01	.01	.01	.01					.06	.94	-.20
				.23	.09	.13	.23	.15	.18					.78	.22	-.20
														1.00		-.34
												.82	.18	1.00	-.20	-.20
				.21	.19	.23	.23	.22	.15					1.00		-.20
														1.00		-.20
				.20	.18	.24	.24	.23	.14				.27	1.00	.01	-.65
														.99	-.20	-.20
														Elasticities for -->		
														W489b00		
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[illegible]







1989

## SUPPLY ELASTICITIES

SUPPLY ELASTICITIES									Row Sum	Self Suffic. Ratio	Value (Million US\$) of Production Exports
WH	CN	RI	S8	SM	SO	OS	OM	OO	SU		
.38	-.10	-.10							-.18	WH	1
	.33	-.05							.28	CN	42
		.55							.52	RI	
		-.20	.30						.35	S8	
		-.20	.30						.06	SM	
									.05	SO	
									.60	OS	2
									.39	OM	
									.05	OO	2
									.30	SU	48
									.27		49

Demand Elasticity Matrix for --&gt; WH89bGY

1989

## DEMAND ELASTICITIES

DEMAND ELASTICITIES										Row	S-D	Product definition and mnemonic:	
WH	CN	RI	SB	SM	SO	OS	OM	OO	SU	Sum	Sum		
.20	-.20	.10		-.02			-.01			-.10	.28	WH	Wheat
										-.25	.51	OM	Corn
.02		-.40		.21						-.38	.90	RI	Rice
			-.26	-.20						-.05	.40	SB	Soybeans
	-.04						-.05			-.29	.34	SM	SoyMeal
				-.99				.75		-.24	.29	SO	SoyOil
						-.37	.04	.29		-.05	.65	OS	Other oil/Seeds
	-.02			-.06	.21	-.20	-.99			-.29	.34	OM	Other Meals
										-.78	.83	OO	Other Oils
									-.20	.47		SU	Sugar (refined)

Shares of Product Going to Intermediate Demand for --&gt; WH89bGY

	Final	Final	Feed Ratios (Total feed/animal prod.)	Date printed
> WA89bGY				2/ 7/1992

Row	Dem.	Dem.	SF	SX	SL	SM	SF	SM	Last update	Base year
90C	90P	90M	90N	90M	90M	90M	90P	90M	2/6/1992	1989

Feed mix percent by animal product.	Exchange rate (LC/US\$)
0%	1
10%	2
20%	3
30%	4
40%	5
50%	6
60%	7
70%	8
80%	9
90%	10
100%	11

[illegible]

	GN	Population growth rate	Income (Million US\$)
0202	-	.0202	106483
1974-83	-	1.06483	-

Country	Population (1000)	Per capita income (\$)
90711		
117		

Model	Estimated protein percentage...	Per capita income (\$)	Model spreadsheet --->
1.00	1.00	1174	W89G
1.00	1.00	1174	W89G

[illegible]

	Av. meal/grain price ratio =	<-	Elasticities for -->
.33	1.00	- .37	OS
.67	1.00	1.00	26
			24

1.00	0.20	GM	AV. feed protein percent =

GY	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters & Price Trans. Elast.---				Product definition and mnemonic	Trade D.						
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I	Exports	Imports	World	Market	Producer	Consumer	TDPRICE	Trade share C.	PRSHARE	BPVALUE	BOVALUE	Cons. G. Exp.	CAEM\$	SUPROW	INCELAS	PTIELAS	M US\$	VTDS			
WH	5	60	-60		60	169	169	169	111	241	169	.70	1	14	-.009	.35	.70	WH	Wheat					
CN		5				111	111	111	111	123	111	.50		1	.013	.08	.50	CN	Corn					
RI	132	102	30	30		320	320	320	320	640	320	.50	42	65	.026	.41	.40	RI	Rice					
SB		1	-1		1	275	275	275	275	289	275	.95			.037	-.10	.70	SB	Soybeans					
SM	1	1				247	247	247	247	309	247	.80			.057	-.10	.70	SM	SoyMeal					
SO		1	-1		1	431	431	431	431	862	431	.50		1	.037	.74	.70	SO	SoyOil					
OS	3	3				630	630	630	630	700	630	.90	2	2	.019	-.10	.70	OS	O. oilSeeds					
OM	1	1				200	200	200	200	250	200	.80			.019	-.10	.70	OM	O. Meals					
OO	2	2				774	774	774	774	1548	774	.50	2	3	.019	.74	.70	OO	Other Oils					
SU	170	24	146	173	27	282	282	282	282	564	282	.50	48	14	.016	.40	.20	SU	Sugar (rfind.)					
GY	---Model Price Wedges (US \$/MT)---				---Model Price Wedges (%)---				---Producer and Consumer Subsidy Equivalent Rates--- Mkt. S. ---				---Budget Wedges (US \$/MT)---				Set-aside P. Cons. Share US \$/MT							
1989	DPSW	CSW	ESW	MSW	DPSW	CSW	ESW	MSW	PSE1P%	CSE1P%	PSE2P%	CSE2P%	MS	MBSE	EBSE	PRSE	CBSE	S-SIDE	SUPTAX					
WH																								
CN																								
RI																								
SB																								
SM																								
SO																								
OS																								
OM																								
OO																								
SU																								
Summary of support (%):																								
Support Measures				Value share of-				Share of-				Source-				Summary of base				Million US \$				
PSE				-Prod. -Cons.				Produce. Agric. Support Budget Transfer				Information:				Production Value								
																Market Value								
																				Consumption Value				
																				Government Expenditures				
																				Producer Support				
																				Consumer Transfer				
																				Total TDS Estimate				

[illegible][illegible][illegible]

PR 1989 -----Base Quantity Data (1000 MT)-----  
 Prod. P-C-E-I Exports Exports  
 SUPPLY DEMAND NTRADE EXPORTS IMPORTS

-----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WDPRIE MCPRIE PRPRIE CNPRIE

-----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BVALUE BCVALUE CAEM6 SUPGROW INCELAS PTELAS

-----Projection parameters  
 GAEM6 SUPGROW INCELAS PTELAS

Product definition and mnemonic: Trade D. M US\$ VIDS

WH	375	285	90	120	30	169	169	241	169	70	63	69	-009	35	70	WH	Wheat
CN	700	700				111	111	123	111	90	78	86	013	08	50	CN	Coarse Gr.
CG	12	12				105	105	117	105	90	1	1	001	09	70	CG	Coarse Gr.
RI	47	47				320	320	640	320	50	15	30	026	41	40	RI	Rice
SB	1575	300				275	275	289	275	95	433	87	037	10	70	SB	Soybeans
SM	150	45			350	247	247	309	247	80	37	14	037	10	70	SM	SoyMeal
SO	38	22				431	431	862	431	50	16	19	037	74	70	SO	SoyOil
OS	425	410				630	630	700	630	90	268	267	019	10	70	OS	OilSeeds
OM	205	50				200	200	250	200	80	41	12	019	10	70	OM	Oil Meals
OO	72	23				774	774	1548	774	50	56	36	019	74	70	OO	Other Oils
CT	225	20				1674	1674	3348	1674	50	377	67	015	77	100	CT	Cotton
SU	105	93				282	282	564	282	50	30	52	016	40	20	SU	Sugar (rfind.)
TB	3	1				3844	3844	7688	3844	50	12	8	008	74	50	TB	Tobacco

PR 1989 -----Model Price Wedges (US \$/MT)-----  
 DPSM CSW ESM MSW  
 ---Model Price Wedges (US \$/MT)---  
 DPSM CSW ESM MSW

-----Producer and Consumer Subsidy Equivalent Rates-----  
 % Internal Price % World Price  
 PSE1P% CSE1P% PSE2P% CSE2P%

-----Budget Wedges (US \$/MT)-----  
 Import Export  
 MBSE EBSE

Set-aside P. Prod. Cons. Share US \$/MT  
 PRSE CBSE S-SIDE SUPTAX

WH CN CG RI SB SM SO OS OM OO CT SU TB

Summary of support (%):	Support Measures	Value share of-Prod.	Share of-Prod.	Source-Prod.
Food crops	PSE	5.5	12.9	Agric.
Feed crops		5.5	11.4	Consumer
Oilseeds, prod.		59.7	59.2	Budget
Other crops		29.3	16.5	Transfer
Crops, oilseeds		100.0	100.0	
All products		100.0	100.0	

Base model spreadsheet	WH89SPR
Support spreadsheet	WH89SPR
Exchange rates in:	
Model spreadsheet	1
Support spreadsheet	1
Currency unit per US\$	US \$
Base year	1989
Base data	WH89SPR



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Shares of Product Going to Intermediate Demand for --> W489PE														Date printed Last update		
Supply-->														Base year	2/ 7/1992 2/ 6/1992	
DM	SBF	SPK	SML	SPM	SPE	SOM	SDB	SDC	SDP	SSM	SSD	SOM	SOO	Row	Final Dem. Share	Final Dem. Elas.
							.09	.50						.59	.41	-.20
WM	.15	.09	.03	.01		.09								.01	.99	-.20
CM	.05	.04	.01	.12		.03								.63	.37	-.20
CG														.25	.75	-.20
SB	.12	.23	.02	.55		.07			.60	.01				.61	.40	-.19
SM														.99	.01	-.20
OS													.84	1.00		-.23
OM	.12	.22	.02	.57		.07								1.00		-.20
														Elasticities for -->		
														W489PE		
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SU	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				-----Projection parameters				Product definition and mnemonic:				Trade D. M US\$ VIDS							
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I Exports	Imports	World Price	Market Price	Producer Price	Consumer Price	Trade share C.	Prod. BPVALUE	Cons. G. Exp. GAEMS	Price Trans. ELAST.	PIELAS	Prod. PRSHARE	TDPRICE	Internal Price	% Internal Price	% World Price	PSE	CSE	MS	Import MBSE	Export EBSE	Prod. PBSE	Cons. CSSE	Share US S-SIDE	Set-aside P. SUPTAX	
WH	35	-35		35	169	169	169	241	169	.70	8	-.009	.35															
CN	20	-20		20	111	111	111	123	111	.90	2	.013	.08															
RI	75	45	30		320	320	320	640	320	.50	24	.026	.41															
SM	4	-4		4	247	247	247	309	247	.80	1																	
SU	10	15	-5	5	282	282	282	564	282	.50	3	.016	.40															
SU	-----Producer and Consumer Subsidy Equivalent Rates----- Mkt. S. ---Budget Wedges (US \$/MT)--- Set-aside P. ---																											
1989	DPSW	Model Price Wedges (US \$/MT)- CSW	Model Price Wedges (%) ESW	DPSW	Model Price Wedges (%) ESW	MSW	MSW	PSE1P%	CSE1P%	PSEW%	CSEW%	MS	Import MBSE	Export EBSE	Prod. PBSE	Cons. CSSE	Share US S-SIDE	Set-aside P. SUPTAX										
WH																												
CN																												
RI																												
SM																												
SU																												
Summary of support (%):					Value share of -Prod. -Cons.				-----Share of-----				Summary of base information:				Million US \$				Base model spreadsheet ---> WH896SU							
Food crops					89.5				Prod. Support				Production Value				27				Support spreadsheet ---> WH896SU							
Feed crops					75.4				Agric. Budget				Market Value				27				Exchange rates in: 1							
Other crops					5.0				Consumer Transfer				Consumption Value				49				Model spreadsheet 1							
					2.5								Government Expenditures								Support spreadsheet 1							
					17.1								Producer Support								Currency unit per US\$ US \$							
													Consumer Transfer								Base year -----> 1989							
													Total TDS Estimate															
Crops, oilseeds					100.0																							
ALL products					100.0																							

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Supply Elasticity Matrix for --- WH89RW															
1989															
SUPPLY ELASTICITIES															
Row	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CH	OS	SO	SM	TB
Sum	38829	46414	6950	19097	18400	44822	12657	6178	1392	44048	22730	26483	69256	4417	17707
Ratio	1.00	1.08	1.06	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Self Suffic.	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CH	OS	SO	SM	TB
Value (Million US\$) of Production	404.7	1146	1141	1081	354	1241	841	421	2236	1011	581	1845	315	461	251
Exports	38829	46414	6950	19097	18400	44822	12657	6178	1392	44048	22730	26483	69256	4417	17707

Demand Elasticity Matrix for --- WH89RW															
1989															
DEMAND ELASTICITIES															
Row	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CH	OS	SO	SM	TB
Sum	27.5	35.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
Ratio	1.00	1.08	1.06	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Self Suffic.	BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CH	OS	SO	SM	TB
Value (Million US\$) of Production	404.7	1146	1141	1081	354	1241	841	421	2236	1011	581	1845	315	461	251
Exports	38829	46414	6950	19097	18400	44822	12657	6178	1392	44048	22730	26483	69256	4417	17707

Shares of Product Going to Intermediate Demand for --- WH89RW															
Supply-->															
Row	BF	PK	ML	PM	PE	DM	DB	DC	DP	SSM	SSD	SOH	SOO	Sum	Final Dem. Share
DM						.20	.14	.06						.40	.60
WH	.02	.06		.02	.03	.03								.16	.84
CH	.08	.20	.02	.06	.09	.13								.63	.37
OS	.06	.23	.01	.05	.10	.10								.55	.45
SM										.55	.11			.66	.34
SB	.06	.55	.01	.11	.17	.10							1.00		
OS												.50	.48	.98	.02
DM														.84	.16
Feed Ratios (Total feed/animal prod.)															
Row	SBF	SPK	SML	SPL	SPE	SMD	SDB	SDC	SDD	SDD	SDD	SDD	SDD	SDD	SDD
DM	2.54	4.23	1.90	3.13	3.24										
WH															
CH															
OS															
SM															
SB															
Date printed															
Last update															
Base year															
Exchange rate (LC/US\$)															
Transmission elast.															
Income growth rate															
Population growth rate															
Income (Million US\$)															
Population (1000)															
Per Capita Income (\$)															
Model spreadsheet ---->															
Elasticities for -->															



## Appendix 5--AS89-Asia and Pacific Rim Model Data

The following pages contain the output of the SWOPSIM programs EOUT and BOUT for each of the countries/regions in the world model denoted AS89, which have not already been listed as part of the WD89 or WH89 databases. Thus, even though there are 37 regions in this database, we only print the data for the 14 unique to this database. The countries/regions not reprinted are denoted by bold type in the following table.

### Country/region coverage in the AS89 Database

Code	Country/region
US	United States
CN	Canada
MX	Mexico
CA	Central America & Caribbean
CO	Colombia
ED	Ecuador
PE	Peru
CL	Chile
EC	European Community
WE	Other Western Europe
EE	Eastern Europe
SV	Soviet Union
CH	Peoples' Republic of China
MN	Mongolia
JP	Japan
NK	North Korea
SK	South Korea
TW	Taiwan
BR	Brunei
BU	Burma
DO	Indonesia
KR	Khmer Republic
LO	Laos
ML	Malaysia
PH	Philippines
SN	Singapore
TH	Thailand
VT	Vietnam
AH	Afghanistan
BG	Bangladesh
ND	India
PK	Pakistan
SL	Sri Lanka
AU	Australia
NZ	New Zealand
OA	Other Asia: Hong Kong, Macao, Bhutan, Nepal, Papua New Guinea, Figi, West Samoa, New Caledonia, Tonga, British Solomon Islands, Gilbert & Ellice Islands, New Hebrides
RW	Rest-of-world

AS89	SWOPSTM world net trade model for 1989 with detail on Asia and the Pacific Rim																											1989 World price														
	EU-----AS-----													EU89																												
WH-----														RW																												
US CN MX CA CO ED PE CL EC WE EE SV CH MN JP NK SK TW BR BU DO KR LO ML PH SN TH VT AH BG ND PK SL AU NZ OA RW																																										
BF	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	WOPRIC													
PK	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	BF 2567													
ML	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	PK 2176													
PM	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	ML 2321													
PE	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	PM 1039													
DM	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	PE 1696													
DB	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	DM 272													
DC	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	DB 2866													
DP	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	DC 3009													
WH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	WH 169													
CN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	CN 111													
CG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	CG 105													
RI	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	RI 320													
SB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	SB 275													
SM	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	SM 247													
SO	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	SO 431													
OS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	OS 630													
OM	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	OM 200													
OO	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	OO 774													
CT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	CT 1674													
SU	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	SU 282													
TB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	TB 3844													
^	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	^												

# CODE DEFINITION OF MATRIX CELL CODES

. No equation created for this country/region & product (however, note that RW region MUST have equations for all products to close world model).

1 Supply and demand equations created for this country/region & product.

S Supply and demand equations created AND demand quantity for this country/region & product can be included in any SUPPLY equation.

D Supply and demand equations created AND supply quantity for this country/region & product can be included in any DEMAND equation.

SD Supply and demand equations created AND demand quantity for this country/region & product can be included in any SUPPLY equation AND supply quantity for this country/region & product can be included in any DEMAND equation.

# SECTOR CODES

IU Input Using sector  
I Input (e.g. feed)  
IB Input and input using (Both)

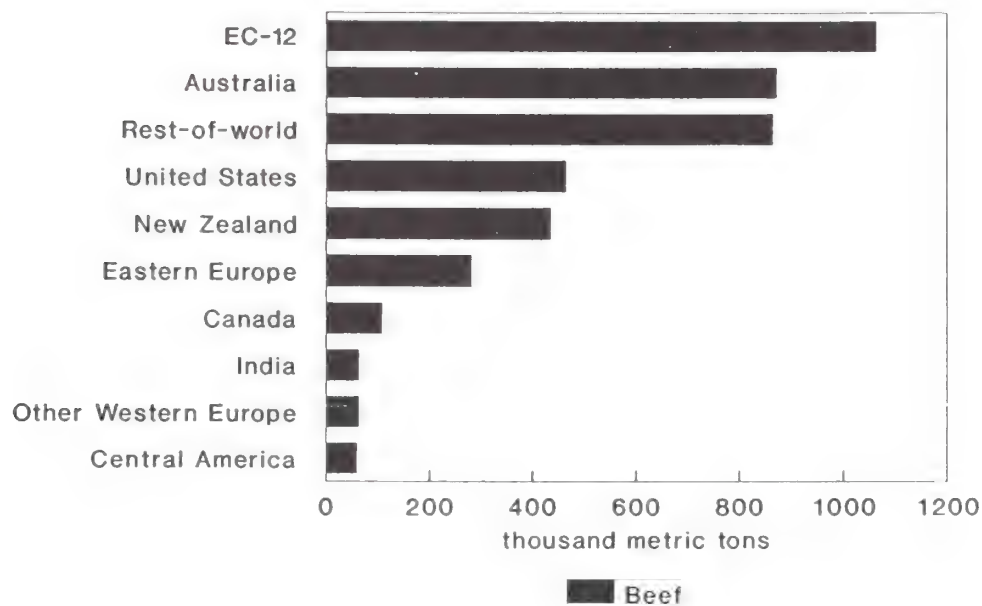
IN intermediate demand Input  
OU intermediate demand Output  
NT Non-Traded product

TL89 data set source:

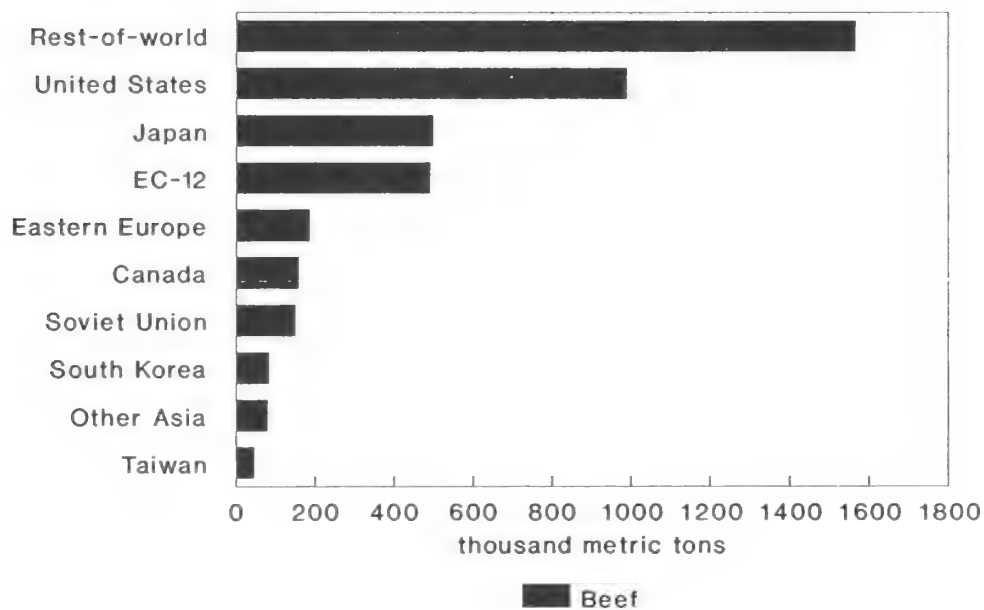
FAS Commodity Supply and Utilization data via ERS TS VIEWER system.

ERS/OECD Commodity Support data

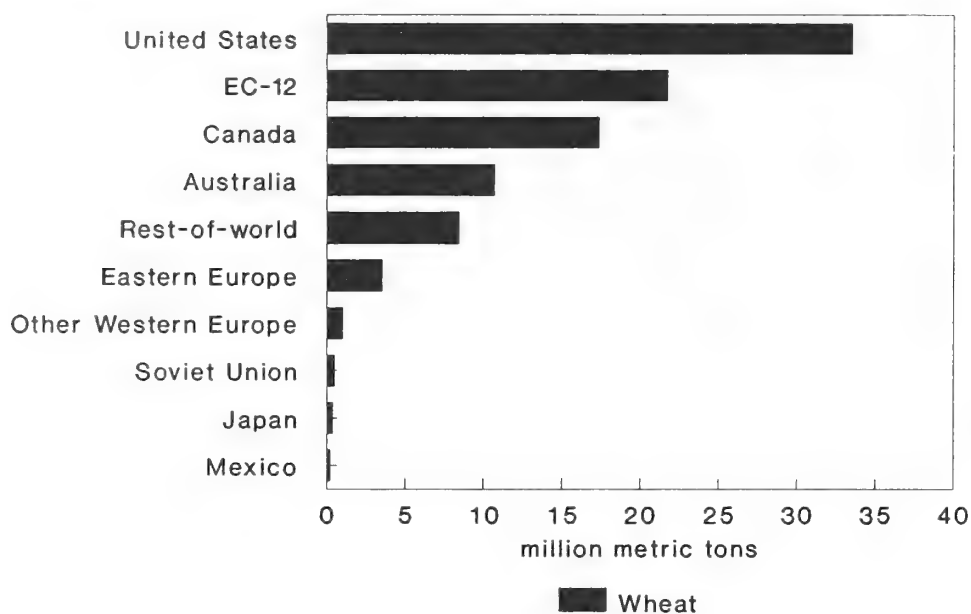
## Top 10 Exporters in the AS89 Database



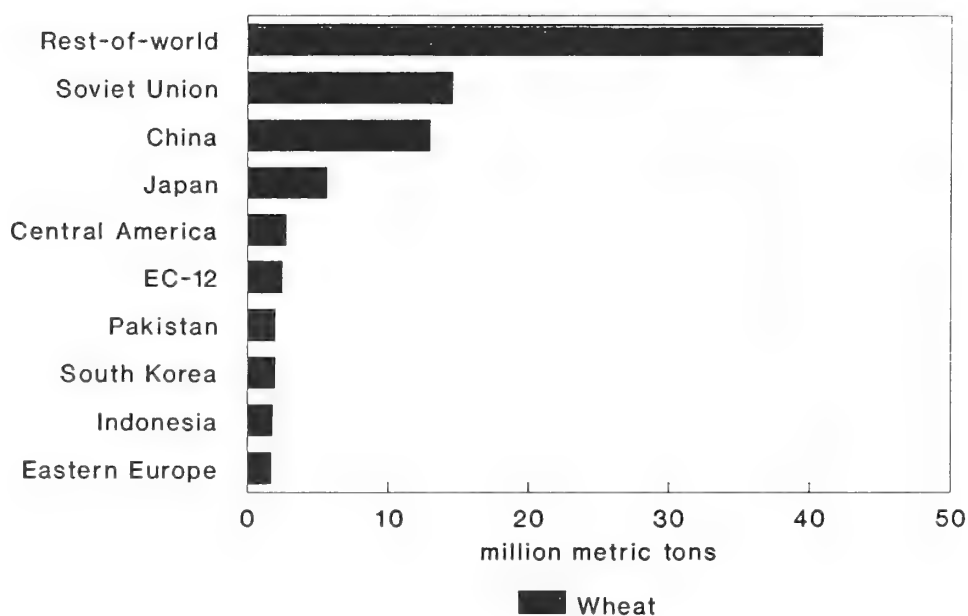
## Top 10 Importers in the AS89 Database



## Top 10 Exporters in the AS89 Database

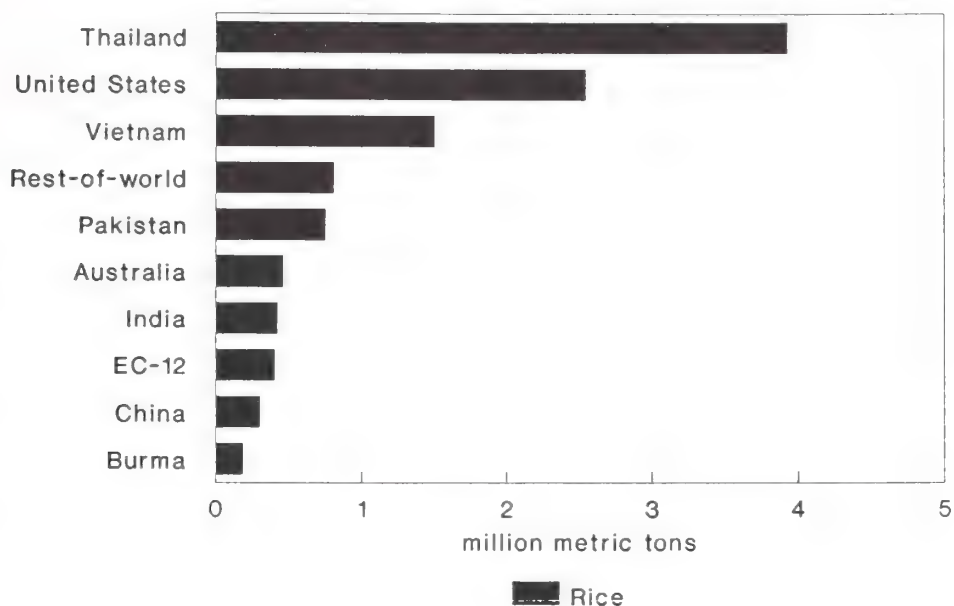


## Top 10 Importers in the AS89 Database

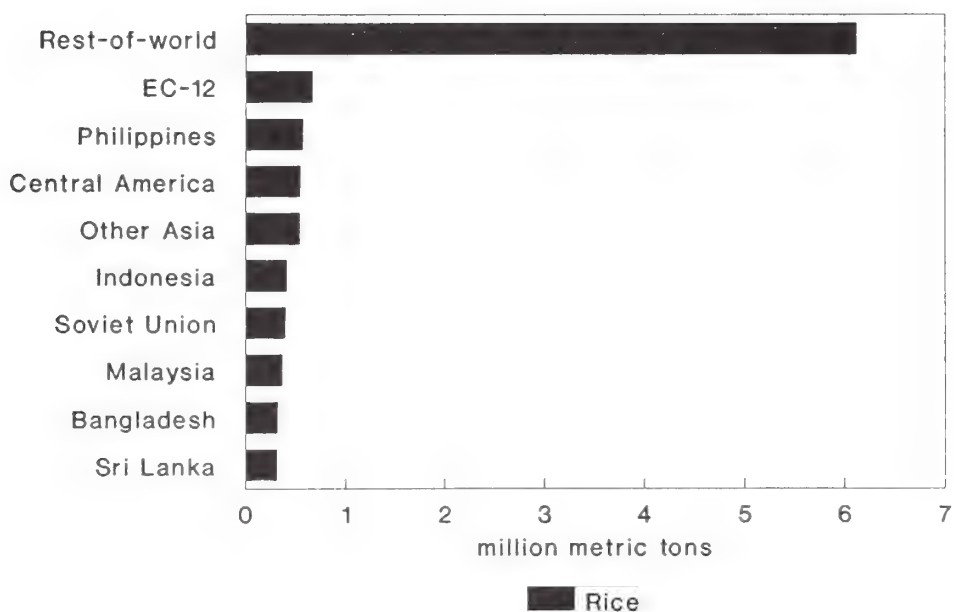




## Top 10 Exporters in the AS89 Database



## Top 10 Importers in the AS89 Database



Supply Elasticity Matrix for --> AS99bW				1989		SUPPLY ELASTICITIES		Self Suffic. Ratio		Value (Million US\$) of Production Exports	
	WH	SU	WH	SU	WH	Sum	Ratio				
WH	.30		.30	WH	1.00			110			
SU		.20	.20	SU							
Demand Elasticity Matrix for --> AS99bW											
	WH	SU	WH	S-D Sum	Product definition and immanonic:						
WH	-.20		-.20	.50	WH	Wheat					
SU		-.50	-.50	.70	SU	Sugar (refined)					
Shares of Product Going to Intermediate Demand for --> AS99bW											
Supply-->				Final Final Dem. Dem. Share Elas.				Date printed Last update			
	WH	SU	WH	SPE SDM	SPE SDM	Base year	2/7/1992	2/7/1992			
						Exchange rate (LC/US\$)	1989	1989			
						Income growth rate	-.0360	-.0360			
						Population growth rate	.0270	.0270			
						Income (Million US\$)	1700	1700			
						Population (1000)	2187	2187			
						Per Capita Income (\$)	777	777			
						Model spreadsheet	AS99bW	AS99bW			
				Elasticities for -->							
						Av. meal/grain price ratio =	<--	<--			
						Av. feed protein percent =	<--	<--			

MH	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product definition and mnemonic:	Trade D. M US\$ VTD
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I NTRADE	Exports IMPORTS	World MPRICE	Market MPRICE	Consumer CNPRICE	(US\$/MT)-----	Trade share C. TDPRICE	Producer BPVALUE	Prod. Cons. BCVALUE	G. Exp. GVALUE	Supp. Trans. INCELAS	Elast. PTELAS				
	650	650			169	169	169	241	169	.70	110	157			WH Wheat			
SU		60	-60	60	282	282	282	564	282	.50	34				SU Sugar (Mfind.)			
MN																		
1989	--Model Price Wedges (US \$/MT)-- DPSW CSW ESW MSW				--Model Price Wedges (%)-- DPSW% CSW% ESW% MSW%				---Producer and Consumer Subsidy Equivalent Rates--- % Internal Price % World Price PSE1P% CSE1P% PSE2P% CSE2P%				Mkt. S. ---US \$/MT--- CSE PSE MS		---Budget Wedges (US \$/MT)--- Import Export MBSE EBSE		Set-aside P. Cons. Share US \$/MT CBSE S-SIDE SUP7AX	
MH																		
SU																		
Summary of support (%):	Support Measures PSE	Value share of -Prod. -Cons.	-----Share of----- Product. Support		Source- Agric. Consumer Budget Transfer		Million US \$	Summary of base information:	Production Value Market Value Consumption Value Government Expenditures Producer Support Consumer Transfer Total TDS Estimate	110 110 191	Exchange rates in: Model spreadsheet Support spreadsheet Currency unit per US\$ Base year ----->					1 1 US\$ 1989	AS89BWN AS89SWM	
Other crops		100.0 82.3																
Crops, oilseeds		100.0 100.0																
All products		100.0 100.0																

Supply Elasticity Matrix for --> AS99bNK											
1989											
SUPPLY ELASTICITIES											
WH	CN	CG	RI	SB	SM	SO	OS	OM	CT	SU	TB
WH	-.50	-.02	-.05								
CN	-.01	.50	-.15								
CG			.35								
RI	-.01	-.04									
SB				.30							
SM				-.35	.30						
SO				-.35	.30	.10					
OS				-.10			.35				
OM							-.25	.30			
CT									.25		
SU										.50	
TB											.40
Product definition and inmanonic:											
CT									.03		
SU										.50	
TB											.40
Self Suffic. Ratio											
WH	.43										
CN		.62									
CG			.92								
RI				1.00							
SB					1.02						
SM						.95					
SO							1.00				
OS								.75			
OM									1.00		
CT										.03	
SU											.50
TB											.40
Value (Million US\$) of Production Exports											
WH	135										
CN	322										
CG	99										
RI	1236										
SB	121										
SM	56										
SO	19										
OS	1										
OM											
CT	2										
SU											
TB	158										
24											
12											
Demand Elasticity Matrix for --> AS99bNK											
1989											
DEMAND ELASTICITIES											
WH	CN	CG	RI	SB	SM	SO	OS	OM	CT	SU	TB
WH	-.20	-.01	.20								
CN	-.01	-.20									
CG			-.20								
RI	.03			-.27	.15	.05					
SB					-.20						
SM						-.40					
SO							-.11				
OS								-.04			
OM								-.20			
CT									-.60		
SU										-.60	
TB											-.49
Product definition and inmanonic:											
WH	-.01										
CN		.44									
CG			.55								
RI				.48							
SB					.57						
SM						.25					
SO							.45				
OS								.33			
OM									.25		
CT										.85	
SU											1.09
TB											.89
Wheat Corn other Coarse Grains Rice Soybeans SoyMeal SoyOil Other oilSeeds Other Meals Cotton Sugar (refined) Tobacco											
Shares of Product Going to Intermediate Demand for --> AS99bNK											
Supply-->											
WH	CN	CG	RI	SB	SM	SO	OS	OM	CT	SU	TB
WH											
CN											
CG											
RI											
SB											
SM											
SO											
OS											
OM											
CT											
SU											
TB											
Date printed 2/3/1992 Last update 1/28/1992											
Base year 1989 Exchange rate (LC/US\$) 1 Transmission elast. .5 Income growth rate .0321 Population growth rate .0096 Income (Million US\$) 62890 Population (1000) 8355 Per Capita Income (\$) 7527 Model spreadsheet --> AS99bNK											
Elasticities for --> AS99bNK											

[illegible]

Supply Elasticity Matrix for --> AS996BR													Demand Elasticity Matrix for --> AS996BR													Shares of Product Going to Intermediate Demand for --> AS996BR													Supply-->													Date printed												
1989													1989													1989													2/14/1992																									
SUPPLY ELASTICITIES													DEMAND ELASTICITIES													FEED RATIOS (Total feed/animal prod.)													2/14/1992																									
WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Base year	Exchange rate	Income growth rate	Population growth rate	Income (Million US\$)	Population (1000)	Per Capita Income (\$)	Model spreadsheet					
.40	-.10	-.10	-.10	.20	.20	.35	.30	.06	.23			.20	-.10	-.20	.30	-.50	.20	.35	.30	.06	.23			.20	-.05	-.20	-.10	-.30	-.12	.43	.74	-.39	.07	.27			.15	-.20	-.20	-.10	-.30	-.12	.43	.74	-.39	.07	.27			.15	1989	1989	1989	1989	1989	1989	1989	1989						
-.15	-.55	-.03	-.46	-.50	.20	.35	-.24	.06	.23			.20	-.50	-.20	-.20	-.50	.20	.35	-.24	.06	.23			.20	-.05	-.20	-.10	-.30	-.12	.43	.74	-.39	.07	.27			.15	-.15	-.55	-.03	-.46	-.50	.20	.35	-.24	.06	.23			.20	1989	1989	1989	1989	1989	1989	1989	1989						
																																																			1989	1989	1989	1989	1989	1989	1989	1989						
																																																			1989	1989	1989	1989	1989	1989	1989	1989						
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																																																			1989	1989	1989	1989	1989	1989	1989	1989						
																																																			1989	1989	1989	1989	1989									









Supply Elasticity Matrix for --> AS89bkr										1989		SUPPLY ELASTICITIES										Self Suffic. Ratio		Value (Million US\$) of Production Exports	



Supply Elasticity Matrix for --> AS89dLO										1989										SUPPLY ELASTICITIES										Value (Million US\$) of Production Exports									
																				RI																			



LO 1989  
 -----Base Quantity Data (1000 MT)-----  
 Prod. Cons. P-C-E-I Exports Imports  
 SUPPLY DEMAND NTRADE EXPORTS IMPORTS  
 -----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WOPRICE MOPRICE POPRICE OMPRICE  
 -----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BVALUE CVALUE BOVALUE  
 -----Projection parameters  
 SUPOROW INCELAS PIELAS  
 -----Trade D.  
 M US\$ VTDS

RI 850 880 -30 30 320 320 320 320 640 320 563 272 563 .020 .40 RI Rice

SU TB 3 10 3 -10 10 282 282 282 282 564 282 6 23 .008 .53 .20 SU Sugar (rfind.)  
 TB 3 3 3 3 3844 3844 3844 3844 7688 3844 23 23 .005 .39 .50 TB Tobacco

LO 1989  
 -----Model Price Wedges (US \$/MT)-----  
 DPSW CSW ESW  
 -----Model Price Wedges (%)-----  
 DPSW% CSW% ESW%  
 -----Producer and Consumer Subsidy Equivalent Rates-----  
 PSE CSE MS  
 -----US \$/MT-----  
 PSE CSE MS  
 -----Budget Wedges (US \$/MT)-----  
 Import Export Prod. Cons. Share US \$/MT  
 MBSE EBSE PBSE CBSE S-SIDE SUPTAX

RI

SU TB

Summary of support (%):  
 Value share of-  
 -Prod. -Cons. Support

Summary of base information:  
 Production Value  
 Market Value  
 Consumption Value  
 Government Expenditures  
 Producer Support  
 Consumer Transfer  
 Total TDS Estimate

Million US \$

Base model spreadsheet --> AS99dLO  
 Support spreadsheet -----> AS99sLO

Exchange rates in:  
 Model spreadsheet 1  
 Support spreadsheet 1  
 Currency unit per US\$ US\$  
 Base year -----> 1999

Other crops

95.9 95.1 4.1 4.9

284 284 592 0

Crops, oilseeds

100.0 100.0

Last update 2/12/92

All products

100.0 100.0

Date printed 2/12/92

Base data -----> AS99dLO

[illegible]





[illegible]

Supply Elasticity Matrix for --> AS89bAH										1989		SUPPLY ELASTICITIES								Row Sum	Self Suffic. Ratio	Value (Million US\$) of Production Exports			
										WH	CN	CG	RI	OS	OM	OO	CT	SU							
WH										.40	-.01	-.01	-.03	-.01	-.02	-.02	-.02	-.01	.32				WH	.85	325
CN										-.04	.46	-.05	-.05	-.02	-.02	-.02	-.02		-.33	CN	1.00	83			
CG										-.12	-.04	.56	-.04	-.04	-.02	-.02	-.02		-.34	CG	1.00	26			
RI										-.10	-.04	-.01	.40	-.01					.22	RI	.96	102			
OS										-.13	-.07	-.04	-.02	.40	.20	.22	-.02		.12	OS	1.08	25			
OM														-.37	.20	.22			.05	OM	1.00	3			
OO														-.02	.20	.22			.05	OO	.14	3			
CT										-.19	-.05	-.02	-.06	-.02			.50		.16	CT	2.22	33			
SU												-.36						.45	.09	SU	.10	3			
Demand Elasticity Matrix for --> AS89bAH										1989		DEMAND ELASTICITIES								Row Sum	S-D Sum	Product definition and mnemonic:			
										WH	CN	CG	RI	OS	OM	OO	CT	SU							
WH										-.30	-.30		.10			-.01	-.01	-.01	-.23	WH	.55	Wheat			
CN													.20			-.05	-.02	-.02	-.19	CN	.52	Corn			
CG											-.30	-.03	.20			-.05	-.02	-.02	-.19	CG	.53	other Coarse Grains			
RI										.26	.09	.03	-.50			-.01	-.01	-.01	-.16	RI	.38	Rice			
OS										-.12	-.10	-.03	-.05	-.16	.04	.04			-.07	OS	.20	Other oil/Seeds			
OM										-.18	-.06	-.02	-.07	-.30	-.30				-.30	OM	.35	Other Meals			
OO										-.10	-.03	-.01	-.04		-.50				-.81	OO	.86	Other Oils			
CT																-.45			-.78	CT	.95	Cotton			
SU																	-.40		-.58	SU	.67	Sugar (refined)			
Shares of Product Going to Intermediate Demand for --> AS89bAH										AS89bAH		Final Dem. Share Elas.								Row Sum	SOM	SOC	Date printed 2/7/1992	Last update 2/7/1992	Base year 1989
Supply-->										WH	CN	CG	RI	OS	OM	OO	CT	SU							
WH										1.00	-.30									1.00	WH	.0231	Exchange rate (LC/US\$)		
CN											1.00	-.30								1.00	CN	.0231	Transmission elast.		
CG												1.00	-.30							1.00	CG	.0770	Income growth rate		
																							Population growth rate		
																							Income (Million US\$)		
																							Population (1000)		
																							Per Capita Income (\$)		
																							Model spreadsheet ---->		
																							AS89bAH		
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Date printed	2/7/1992
Last update	2/7/1992
Base year	1989
Exchange rate (LC/US\$)	1
Transmission elast.	.0231
Income growth rate	.0770
Population growth rate	.0000
Income (Million US\$)	15862
Population (1000)	189
Per Capita Income (\$)	AS89bAH
Model spreadsheet	AS89bAH
Elasticities for -->	AS89bAH



[illegible]

[illegible]



[illegible]

PK	1989	Prod. SUPPLY	Cons. DEMAND	Quantity Data (1000 MT)	Imports EXPORTS	Base Price Data (US\$/MT)	World PRICE	Market PRICE	Producer PRICE	Consumer PRICE	Trade share C: TOPRICE	Producer PRICE SHARE	Prod. Cons. BVALUE	Base Values (M. US\$)	Projection parameters G. Exp. & Price Trans. Elast. GABMS SUPGROW INCELAS PTELAS	Product definition and Immonic:	Trade D. M US\$ VTDUS	
PK	1989	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)
1989	1989	DPSM	CSM	ESM	MSM	DPSM	CSM	ESM	MSM	DPSM	CSM	ESM	MSM	DPSM	CSM	ESM	MSM	DPSM
WH	14419	16419	-2000	2000	10	169	111	124	133	170	145	.70	1921	2790	.252	.024	Wheat	-412
CN	1179	1189	-10	10		111	105	111	111	123	111	.90	131	147		.009	Corn	
CG	589	589	749			320	210	105	105	117	105	.50	82	69	33	-.004	o. Coarse Gr.	
RI	3220	2471				275	247	275	275	289	309	.95	707	1036		.016	Rice	-303
SB	1	1	-14	14		247	247	247	247	247	247	.80				.041	Soybeans	
SM	378	378	-378	378		431	431	431	431	862	431	.50	2051	5		.041	SoyMeal	
SO	3256	3257	-1	1		630	630	630	630	700	630	.90	2051	2280		.008	oilSeeds	
OS	1251	1251				200	200	200	200	250	200	.80	250	313		.008	o. oilSeeds	
OM	304	950	-646	646		774	774	774	774	1548	774	.50	235	1471		.008	o. Meals	
OD	1454	1159	295	299		1674	309	309	318	618	422	.50	463	717	13	.008	Other Oils	
CI	1980	2023	-43	94		282	30	30	31	48	28	.50	61	96	1	.021	Cotton	-199
SU	66	66	1	1		3844	3844	3844	3844	7688	3844	.50	254	500		.010	Sugar (rfind.)	4
TB																.002	Tobacco	
PK	1989	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)	Model Price Wedges (US \$/MT)
1989	1989	DPSM	CSM	ESM	MSM	DPSM	CSM	ESM	MSM	DPSM	CSM	ESM	MSM	DPSM	CSM	ESM	MSM	DPSM
WH	-12	29				16.9				-9.2	16.9	-7.2	17.0	-12	29	-21	9	7
CN																		
CG																		
RI	-89	99				23.6				-40.5	23.6	-27.8	31.0	-89	99	-99	10	
SB																		
SM																		
SO																		
OS																		
OM																		
OD	-103	112				18.2				-32.4	18.2	-6.2	6.7	-103	112	-112	9	
CI	3	-2				-4.6				8.9	-4.6	1.0	-8	3	-2	2	1	
SU																		
TB																		
Summary of support (%):		Support Measures PSE	Value share of -Prod. -Cons.	Share of Prod. Support	Source of Agric. Budget Transfer	Summary of base information:	Production Value	Market Value	Consumption Value	Government Expenditures	Producer Support	Consumer Transfer	Total TDS Estimate	Million US \$	Base model spreadsheet -->	Support spreadsheet ----->	AS99PK	AS99PK
Food crops		-17.7	41.4	39.2	76.2	Production Value	6136	5957	9748	299	607	841	910	6136	Exchange rates in:	Model spreadsheet	1	
Feed crops			3.2	2.2		Consumption Value	9748	9748	9748	299	607	841	910	9748	Support spreadsheet	17.18	PR	
Oilseeds, prod.		-18.4	42.6	45.1	23.8	Producer Support	607	607	607	607	607	607	607	607	Currency unit per US\$	1989	PR	
Other crops			12.8	13.5	4.8	Consumer Transfer	841	841	841	841	841	841	841	841	Base year ----->		1989	
Crops, oilseeds		-9.7	100.0	100.0	100.0	Total TDS Estimate	910	910	910	910	910	910	910	910	Base data ----->		AS99PK	
All products		-10.2	100.0	100.0	100.0	Last update	1/21/92											
						Date printed	2/3/92											

	SSM	SSO	SOM	SOO	Row Sum	Final Dem. Share	Final Dem. ELas.
Feed Ratios (Total feed/animal prod.)							
SBF	SPK	SM	SPE	SOM			
Feed mix percent by animal product.							
SBF	SPK	SM	SPE	SOM			
..Estimated protein percentage...							
SBF	SPK	SM	SPE	SOM			
Av. meal/grain price ratio =							
Av. feed protein percent =							



[illegible]

Supply Elasticity Matrix for --> AS9900A												Supply Elasticities												Value (Million US\$) of Production Exports											
1989												1989												2/1/1992											
Supply-->	BF	PK	PM	PE	WH	CN	CG	RI	SB	SM	SO	OS	OM	CO	CT	SU	TB	Row Sum	Self Suffic. Ratio																
BF	.20	.30																-.20	BF	.12															
PK																		-.16	PK	.19															
PM			.40															-.13	PM	.02															
PE				.40														-.22	PE																
WH					.40	-.01	-.01	-.03										.30	WH	.67															
CN					-.01	.46	-.05	-.05										.30	CN	.85															
CG					-.07		.56	-.04										.41	CG	1.00															
RI					-.01			.40										.36	RI	.78															
SB									.20									.19	SB																
SM									-.50	.20								.05	SM																
SO										.20								.05	SO																
OS											.35							.24	OS	1.47															
OM												.40						.05	OM	1.15															
CO												-.39	.03					.05	CO	1.62															
CT												-.12		.41				.03	CT																
SU															.50			.42	SU																
TB																	.34	TB	1.51																
																				Product definition and immanonic:															
																				Beef and veal															
																				Pork															
																				Poultry Meat															
																				Poultry, Eggs															
																				Wheat															
																				Corn															
																				other Coarse Grains															
																				Rice															
																				Soybeans															
																				SoyMeal															
																				SoyOil															
																				Other oilseeds															
																				Other Meals															
																				Other Oils															
																				Cotton															
																				Sugar (refined)															
																				Tobacco															
																				Date printed															
																				Last update															
																				Base year															
																				Exchange rate (LC/US\$)															
																				Transmission elast.															
																				Income growth rate															
																				Population growth rate															
																				Income (Million US\$)															
																				Population (1000)															
																				Per Capita Income (\$)															
																				Model spreadsheet															
																				AS9900A															
																				Elasticities for -->															
																				AS9900A															

OA	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Base Price Data	US\$/MT	Trade share C	Producer	Base Values (M. US\$)	Projection parameters	Product definition and immanonic	Trade D. M US\$ VTDS
			Prod. Cons. DEMAND	P-C-E-I TRADE	Imports Exports	World Price	Market Price	MRPRICE	MRPRICE	MRPRICE	
BF	30	79	-79	2567	2567	2567	2567	2567	2567	BF	Beef & veal
PK	34	244	-214	2176	2176	2176	2176	2176	2176	PK	Pork
PM	34	183	-149	1039	1039	1039	1039	1039	1039	PM	Poultry Meat
PE	2	96	-94	1696	1696	1696	1696	1696	1696	PE	Poultry, Eggs
MH	850	1275	-425	169	169	169	169	169	169	MH	Wheat
CN	985	1160	-175	111	111	111	111	111	111	CN	Co. Coarse Gr.
CG	201	201	-	320	320	320	320	320	320	CG	Rice
RI	1911	2446	-535	275	275	275	275	275	275	RI	Soybeans
SB	13	17	-130	247	247	247	247	247	247	SB	SoyMeal
SM	130	130	-	431	431	431	431	431	431	SM	SoyOil
SO	3	3	-3	630	630	630	630	630	630	SO	O. oilSeeds
OS	313	213	100	200	200	200	200	200	200	OS	O. Meals
OM	77	67	10	774	774	774	774	774	774	OM	Other Oils
OO	275	170	105	1674	1674	1674	1674	1674	1674	OO	Cotton
OT	211	211	-211	282	282	282	282	282	282	OT	Sugar (rfind.)
SU	410	272	138	3844	3844	3844	3844	3844	3844	SU	Tobacco
TB	27	27	-27							TB	
OA	1989	Prod. SUPPLY	Base Quantity Data (1000 MT)	Base Price Data	US\$/MT	Trade share C	Producer	Base Values (M. US\$)	Projection parameters	Product definition and immanonic	Trade D. M US\$ VTDS
BF	30	79	-79	2567	2567	2567	2567	2567	2567	BF	Beef & veal
PK	34	244	-214	2176	2176	2176	2176	2176	2176	PK	Pork
PM	34	183	-149	1039	1039	1039	1039	1039	1039	PM	Poultry Meat
PE	2	96	-94	1696	1696	1696	1696	1696	1696	PE	Poultry, Eggs
MH	850	1275	-425	169	169	169	169	169	169	MH	Wheat
CN	985	1160	-175	111	111	111	111	111	111	CN	Co. Coarse Gr.
CG	201	201	-	320	320	320	320	320	320	CG	Rice
RI	1911	2446	-535	275	275	275	275	275	275	RI	Soybeans
SB	13	17	-130	247	247	247	247	247	247	SB	SoyMeal
SM	130	130	-	431	431	431	431	431	431	SM	SoyOil
SO	3	3	-3	630	630	630	630	630	630	SO	O. oilSeeds
OS	313	213	100	200	200	200	200	200	200	OS	O. Meals
OM	77	67	10	774	774	774	774	774	774	OM	Other Oils
OO	275	170	105	1674	1674	1674	1674	1674	1674	OO	Cotton
OT	211	211	-211	282	282	282	282	282	282	OT	Sugar (rfind.)
SU	410	272	138	3844	3844	3844	3844	3844	3844	SU	Tobacco
TB	27	27	-27							TB	

Summary of support (%)	Support Measures	Value share of -Prod. -Cons.	Share of -Source- Produc. Agric. Support	Summary of base information:	Million US \$	Base model spreadsheet	Support spreadsheet	AS890A	AS890A
Meat & eggs	PSE	6.8	36.4	Production Value	1531	Model spreadsheet	Support spreadsheet	1	1
Food crops	CSE	49.3	33.3	Market Value	1531	Currency unit per US\$	Base year	US\$	1989
Feed crops	MSW	8.5	3.0	Consumption Value	5632				
Oilseeds, prod.	ESW	27.8	8.5	Government Expenditures	0				
Other crops	MSW	7.6	19.0	Producer Support					
Animal Products	ESW	6.8	36.4	Consumer Transfer					
Crops, oilseeds	MSW	93.2	63.6	Total TDS Estimate					
All products	ESW	100.0	100.0	Last update	2/7/92				
				Date printed	2/7/92				

[illegible]

Demand Elasticity Matrix for --> AS884RM																									DEMAND ELASTICITIES												1989		ROW		S-D		Product definition and immanonic:
		BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Sum	S-D																		
BF	BF																							-.48	.86	Beef and veal																	
PK	PK	-.63																						-.46	.68	Pork																	
ML	ML	-.26	-.82								.04													-.34	.79	Mutton and Lamb																	
PM	PM	.02	-.08	-.54																				-.32	.59	Poultry Meat																	
PE	PE	.18	.08	-.12	-.70																			-.42	.61	Poultry, Eggs																	
DM	DM																							-.20	.52	Dairy - fluid Milk																	
DB	DB																							-.55	.60	Dairy - Butter																	
DC	DC																							-.46	.51	Dairy - Cheese																	
WH	WH	.03	.01	.01																				-.36	.41	Dairy - milk Powder																	
CN	CN																							-.30	.62	Wheat																	
CG	CG																							-.31	.64	Corn																	
RI	RI																							-.09	.28	other Coarse Grains																	
SB	SB																							-.06	.50	Rice																	
SM	SM																							-.05	.45	Soybeans																	
SO	SO																							-.41	.46	SoyMeal																	
OS	OS																							-.54	.59	SoyOil																	
OM	OM																							-.05	.33	Other oilSeeds																	
OO	OO																							-.41	.46	Other Meals																	
CT	CT																							-.31	.36	Other Oils																	
SU	SU																							-.40	.78	Cotton																	
TB	TB																							-.32	.66	Sugar (refined)																	
																								-.19	.32	Tobacco																	

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## Appendix 6--AF89-Africa Model Data

The following pages contain the output of the SWOPSIM programs EOUT and BOUT for each of the countries/regions in the world model denoted AF89, which have not already been listed as part of the WD89 database. Thus, even though there are 38 regions in this database, we only print the data for the 33 unique to this database. The countries/regions not reprinted are denoted by bold type in the following table.

### Country/region coverage in the AF89 Database

#### Code Country/region

US	United States
EC	European Community
OE	Other Europe: Other Western Europe, Eastern Europe, Soviet Union
AS	Asia: China, Mongolia, East Asia, Southeast Asia, South Asia
AL	Algeria
EG	Egypt
LY	Libya
MC	Morocco
TN	Tunisia
CM	Cameroon
GH	Ghana
GN	Guinea
IC	Ivory Coast
LB	Liberia
NG	Nigeria
SG	Senegal
AW	Other West Africa: Benin, Burkina Faso, Cape Verde, Chad, Gambia, Guinea-Bissau, Mali, Mauritania, Niger, Sierre Leone, Togo
ZR	Zaire
CF	Other Central Africa: Central African Republic, Congo, Equatorial Guinea, Gabon, Sao Tome & Principe
EP	Ethiopia
KY	Kenya
SM	Somalia
SD	Sudan
TZ	Tanzania
UG	Uganda
AE	Other East Africa: Burundi, Djibouti, Rwanda
AG	Angola
BT	Botswana
LH	Lesotho
MG	Madagascar
MW	Malawi
MZ	Mozambique
WZ	Swaziland
ZA	Zambia
ZB	Zimbabwe
SF	South Africa
OF	Other Southern Africa: Comoros Islands, Mauritius, Reunion, Seychelles
RW	Rest-of-world



[illegible]

### CODE DEFINITION OF MATRIX CELL CODES

No equation created for this country/region & product (however, note that RW region MUST have equations for all products to close world model).

<sup>1</sup> Supply and demand equations created for this country/region & product.

S Supply and demand equations created AND demand quantity for this country/region & product can be included in any SUPPLY equation.

0. Supply and demand equations created AND supply quantity for this country/region & product can be included in any DEMAND equation.

Supply and demand equations created AND demand quantity for this country/region & product can be included in any SUPPLY equation AND supply quantity for this country/region & product can be included in any DEMAND equation.

## SECTOR CODES

Input	Input Using sector
IU	Input (e.g. feed)
IB	Input and input using (Both)

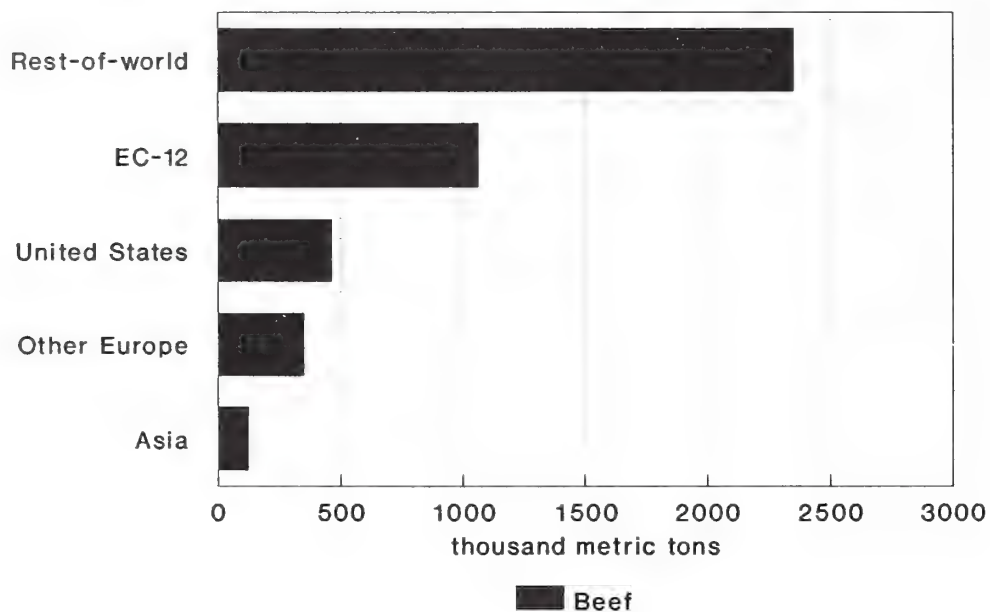
IN	intermediate demand	INPUT
OU	intermediate demand	OUTPUT
NT	Non-Traded product	

TL89 data set source:

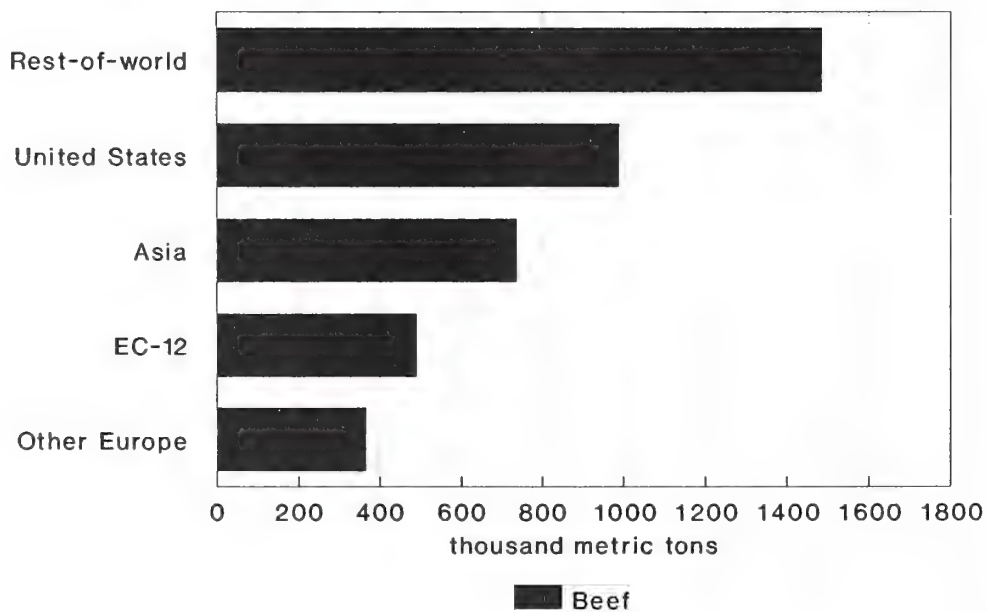
FAS Commodity Supply and Utilization data  
via ERS TS VIEWER system.

ERS/OECD Commodity Support data

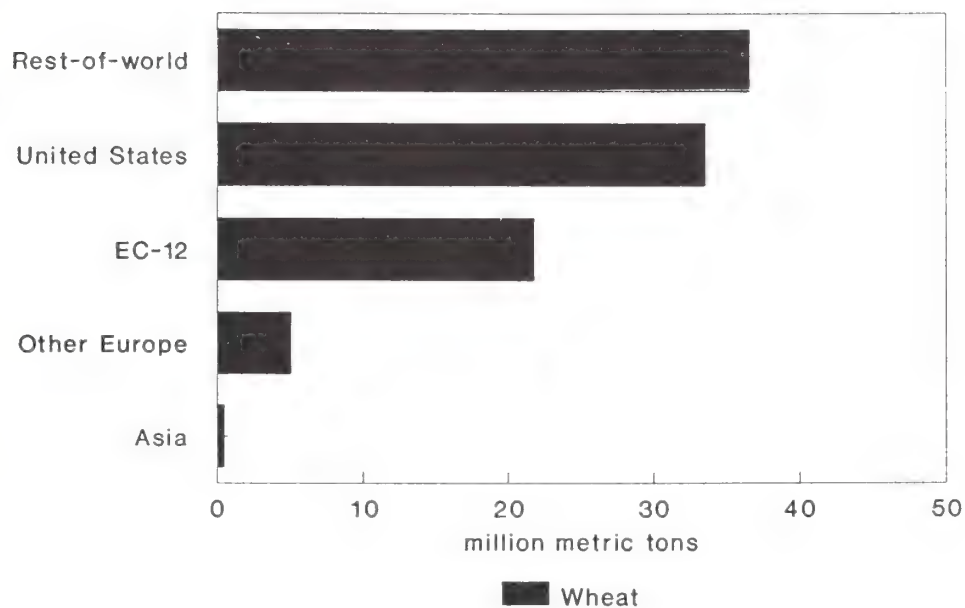
## Top 5 Exporters in the AF89 Database



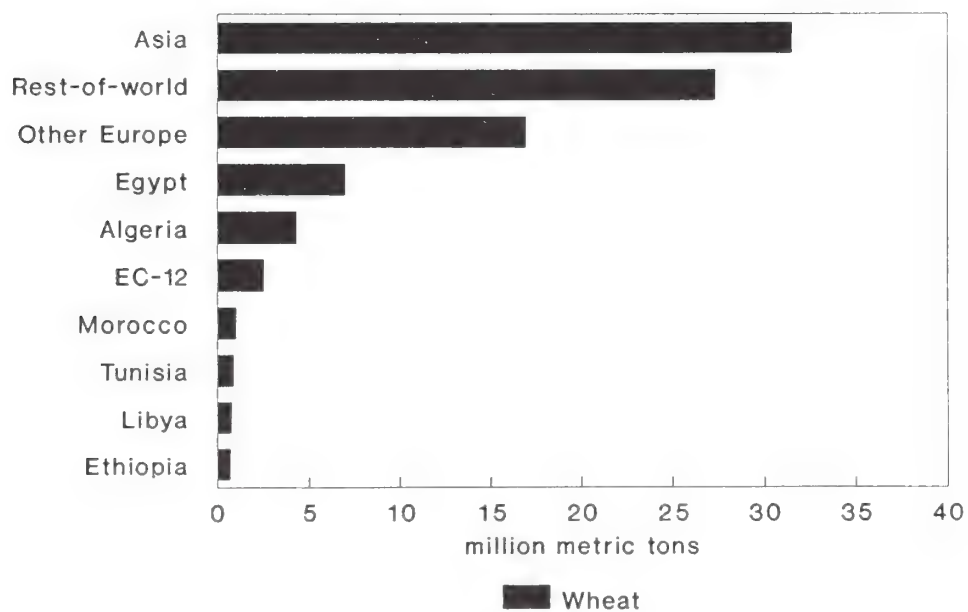
## Top 5 Importers in the AF89 Database



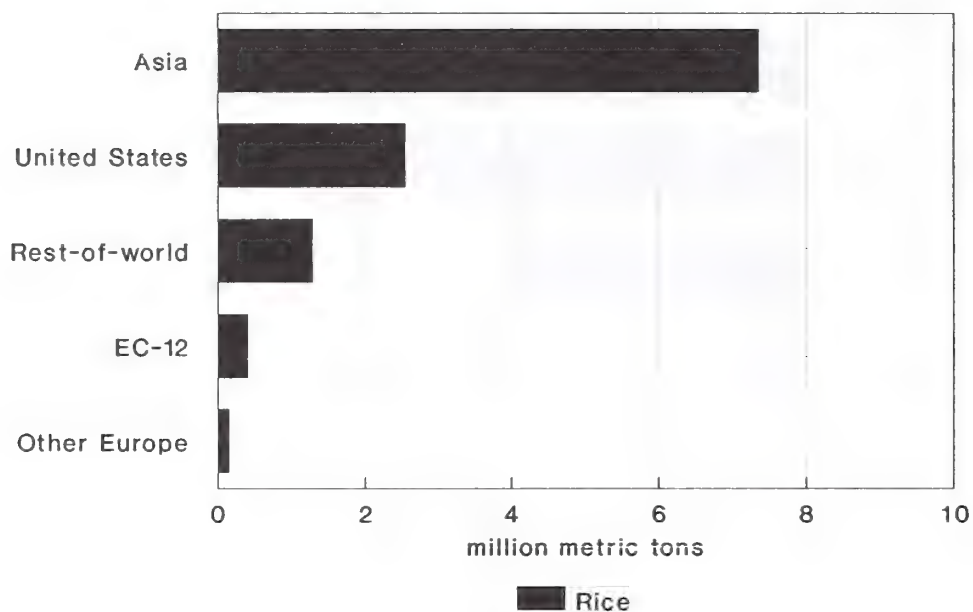
## Top 5 Exporters in the AF89 Database



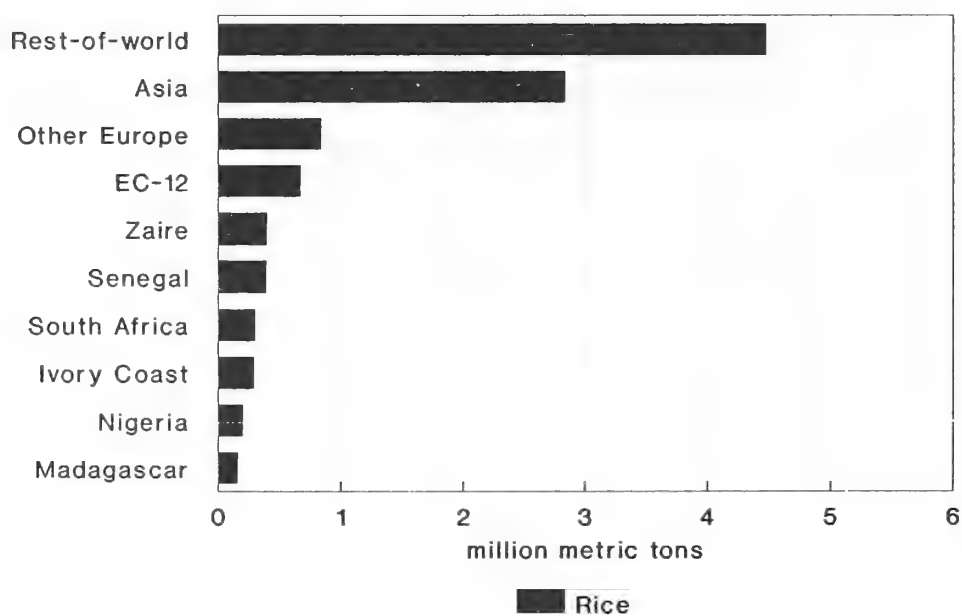
## Top 10 Importers in the AF89 Database



## Top 5 Exporters in the AF89 Database



## Top 10 Importers in the AF89 Database



Supply Elasticity Matrix for --> AF89BOE															SUPPLY ELASTICITIES															Self Suffic.		Value (Million US\$) of Production Exports	
1989																																	
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	ON	CG	RI	SB	SM	SO	OS	OM	CO	CT	SU	TB	Row Sum		Ratio									
.28	-.04				.07				-.07	-.02	-.01			-.02			-.01					26		1.00		29254	896						
-.04	.46								-.07	-.02	-.06											27		1.02		29570	1142						
		.31							-.02	-.01	-.01											28		1.04		2913	142						
-.06			.58	-.01					-.15	.03	-.03			-.03			-.03					18		1.02		5532	381						
				.29					-.04	-.01	-.03			-.01			-.01					25		1.00		12474	141						
.04					.26				-.03	-.01	-.02											20		1.00		43213							
					-.14		.09	.05														05		.94		7265	287						
					-.16		.36	-.03														06		1.07		5579	602						
					-.14		.09	.05														05		1.17		1707	277						
									.25	-.02	-.05											17		.92		23248	853						
									-.09	-.04	-.11											12		.69		5187	55						
									-.09	-.04	-.30											15		.96		13773	167						
									-.13	-.09	-.07	.43										22		.73		597	48						
													.30			-.02						20		.49		492	10						
													-.36		.11							05		.51		631	61						
													-.36	.30	.11							05		.60		240	8						
									-.01		-.01			.30		.19						18		1.03		11790	569						
																-.49	.15	.39				05		.95		1596	75						
																-.49	.15	.39				05		.90		4118	536						
																						15		1.00		4525	1225						
																						19		.70		3994	234						
																			.15	.19		18		.83		1730	357						

Demand Elasticity Matrix for --> AF896OE												1989	DEMAND ELASTICITIES										Product definition and mnemonics:	
BF	PK	ML	PM	PE	DM	DB	DC	DP	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row	S-D	
BF	-.22	-.03																			SU	-.17	BF	Beef and veal
PK	-.03	-.34																			PK	-.30	PK	Pork
ML	-.03		-.17																		ML	-.45	ML	Mutton and Lamb
PM		-.06		-.27																	PM	-.13	PM	Poultry Meat
PE					-.14																PE	-.33	PE	Poultry, Eggs
DM						-.01	.01														DM	-.40	DM	Dairy - fluid Milk
DB						-.17															DB	-.22	DB	Dairy - Butter
DC						-.23															DC	-.23	DC	Dairy - Cheese
DP							-.23														DP	-.33	DP	Dairy - milk Powder
WH								-.28													WH	-.28	WH	Wheat
CN									-.26	.02	.03										CN	-.21	CN	Corn
CG									-.09	-.26	.06										CG	-.34	CG	other Coarse Grains
RI									-.07	.03	-.31	-.17									RI	-.16	RI	Rice
SB									.01				-.35								SB	-.05	SB	Soybeans
SM										.03	.06			-.39	.08						SM	-.29	SM	SoyMeal
SO															-.29			.08			SO	-.21	SO	SoyOil
OS																-.27	.06	.16			OS	-.05	OS	Other oilSeeds
OM										.04	.08						-.39				OM	-.27	OM	Other Meals
OO														.01	.01			-.18			OO	-.17	OO	Other Oils
CT																			-.15		CT	-.15	CT	Cotton
SU																				-.20	SU	-.20	SU	Sugar (refined)
TB																					TB	-.29	TB	Tobacco

Shares of Product Going to Intermediate Demand for --- AF89dOE													Date printed			
Supply-->													Last update			
	SBF	SPK	SML	SPM	SPE	SOM	SDB	SDC	SDP	SSM	SSD	SOD	Row	Final Dem.	Final Dem. Share	Elas.
DM							.20	.14	.06				.40	.60	-.20	DM
WH	.05	.12		.04	.05	.12							.38	.62	-.20	WH
CN	.06	.12	.01	.03	.05	.13							.40	.61	-.20	CN
CG	.09	.23	.01	.06	.09	.20							.68	.32	-.20	CG
SB										.79	.17		.96	.04	-.35	SB
SM	.09	.47	.01	.11	.15	.17						1.00	1.00	-.20	SM	
OS											.56	.37	.93	.07	-.27	OS
OM	.08	.46	.01	.12	.16	.17							1.00	-.20	OM	

BF PK ML PM PE DM DB DC DP WH CN CG RI SS SM SO SMO OT SJ TR

All products





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Shares of Product Going to Intermediate Demand for --- AF89DAL										Date printed Last update					
Supply-->	SBF	SML	SPM	SPE	SOM	SDB	SDC	SDP	SSM	SSD	SOM	SOD	Row	Final Dem. Share	Final Elas.
DM						.07	.14						.21	.79	-.20
LH														1.00	-.20
CN														1.00	-.20
CG	.03	.02	.20	.41	.13								.79	.21	-.20
SB	.02								.50	.50			1.00	-1.22	SB
SM		.01	.46	.43	.08								1.00	-.20	SM
OS												1.00	1.00	-.53	OS
CM	.02	.01	.46	.44	.07								1.00	-.20	CM

Feed Ratios (Total feed/animal prod.)										Date printed Last update						
Supply-->	SBF	SML	SPK	SWM	SPE	SOM	SDB	SDC	SDP	SSM	SSD	SOM	SOD	Row	Final Dem. Share	Final Elas.
DM														.21	.79	-.20
LH														1.00	-.20	LH
CN														1.00	-.20	CN
CG	.03	.02	.20	.41	.13									.79	.21	-.20
SB	.02									.50	.50			1.00	-1.22	SB
SM		.01	.46	.43	.08									1.00	-.20	SM
OS													1.00	1.00	-.53	OS
CM	.02	.01	.46	.44	.07									1.00	-.20	CM

Feed Ratios (Total feed/animal prod.)										Date printed Last update						
Supply-->	SBF	SML	SPK	SWM	SPE	SOM	SDB	SDC	SDP	SSM	SSD	SOM	SOD	Row	Final Dem. Share	Final Elas.
DM														.21	.79	-.20
LH														1.00	-.20	LH
CN														1.00	-.20	CN
CG	.03	.02	.20	.41	.13									.79	.21	-.20
SB	.02									.50	.50			1.00	-1.22	SB
SM		.01	.46	.43	.08									1.00	-.20	SM
OS													1.00	1.00	-.53	OS
CM	.02	.01	.46	.44	.07									1.00	-.20	CM

Feed Ratios (Total feed/animal prod.)										Date printed Last update						
Supply-->	SBF	SML	SPK	SWM	SPE	SOM	SDB	SDC	SDP	SSM	SSD	SOM	SOD	Row	Final Dem. Share	Final Elas.
DM														.21	.79	-.20
LH														1.00	-.20	LH
CN														1.00	-.20	CN
CG	.03	.02	.20	.41	.13									.79	.21	-.20
SB	.02									.50	.50			1.00	-1.22	SB
SM		.01	.46	.43	.08											

[illegible]

Supply Elasticity Matrix for --> AF89dLY											1989	SUPPLY ELASTICITIES					SM	CM	CO	SU	TB	RdW Sum	Self Suffic. Ratio
	WH	CN	CG	RI	SM	CM	CO	SU	TB	RdW Sum	Self Suffic. Ratio												
WH	.30									.30	.16												
CN	.50	.20								.30	.11												
CG		.25								.25													
RI			.15							.15													
SM				.15						.30													
CM					.30																		
CO						.39				.39	.05												
SU							.39																
TB								.10	.10	.10	.33												

[illegible][illegible]

[illegible]



Supply Elasticity Matrix for --> AF89bMC													Supply ELASTICITIES													Value (Million US\$) of Production Exports												
1989													1989													1989												
Supply-->	BF	PK	ML	WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	ROW	Sum	Ratio	Self Suffic.	Value (Million US\$) of Production Exports																	
BF	.21			-.02	-.11	-.01			-.02								-.06		BF	.96	259																	
PK		.30		-.04	-.24				-.02								-.23		PK	1.00	2																	
ML			.50						-.01								.19		ML	1.00	135																	
WH				.30	-.04									-.01			.25		WH	.80	664																	
CN				-.08	-.10												.30		CN	.82	45																	
CG					.45												.32		CG	1.00	322																	
RI						.15											.14		RI	.11	1																	
SB					-.08	-.06		.20						-.01			.05		SB	.08	1																	
SM							-.25	.30						-.01			.05		SM	1.00	5																	
SO							-.25	.30									.07		SO	1.00	122																	
OS						-.08				.15							.05		OS	1.04	17																	
OM										-.29	.05						.05		OM	.91	100																	
OO										-.29	.05						.10		OO	.26	15																	
CT													.45				.10		CT	.65	149																	
SU				-.35										.10			.10		SU	.57	23																	
TB																			TB																			
Product definition and mnemonic:																																						
Beef and veal																						BF																
Pork																						PK																
Mutton and Lamb																						ML																
Wheat																						WH																
Corn																						CN																
other Coarse Grains																						CG																
Rice																						RI																
Soybeans																						SB																
SoyMeal																						SM																
SoyOil																						SO																
Other oilseeds																						OS																
Other Meals																						OM																
Other Oils																						OO																
Cotton																						CT																
Sugar (refined)																						SU																
Tobacco																						TB																
Date printed																						2/7/1992																
Last update																						2/7/1992																
Base year																						1989																
Exchange rate (LC/US\$)																						1																
Transmission elast.																						.0255																
Income growth rate																						.0255																
Population growth rate																						.0226																
Income (Million US\$)																						131773																
Population (1000)																						101585																
Per Capita Income (\$)																						1297																
Model spreadsheet																						AF89bMC																
Elasticities for -->																						AF89bMC																

MC	-----Base Quantity Data (1000 MT)-----					-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product		Trade D.	
1989	Prod.	Cons.	P-C-E-I	Exports	Imports	World	Market	Producer	Trade share C:	Prod.	Cons.	G. Exp.	& Price Trans.	Elast.	PIELAS	BF	PK	ML	definition	M US\$	VTDS
	SUPPLY	DEMAND	NTRADE	EXPORTS	IMPORTS	WPRI	MPRI	PPRI	TPRI	BPVALUE	BCVALUE	GABUS	SUPROW	INCELAS					and immanonic:		
BF	101	105	-4		4	2567	2567	2567	2567	259	490	.013	.50	.50					Beef & veal		
PK	1	1				2176	2176	4352	2176	2	4	.027	.48	.50					Pork		
ML	58	58				2321	2321	4642	2321	135	269	.008	.56	.50					Mutton & Lamb		

WH	CN	CG	RI	SB	SM	SO	OS	OM	CO	CT	SU	TB
Wheat	Coarse Gr.	Rice	Soybeans	SoyMeal	SoyOil	O. oilSeeds	O. Meals	Other Oils	Cotton	Sugar (rfind.)	Tobacco	
3927	403	3071	3	2	20	193	87	129	9	527	6	
4933	494	3071	28	26	20	136	193	142	35	810	16	
-1006	-91	-25	-24	-136	3	-13	-26	-263	-10			
1006	91	25	22	136	3	30	4	263	10			
169	111	105	320	275	247	431	630	200	774	1674	282	3844
169	111	105	320	275	247	431	630	200	774	1674	282	3844
241	123	117	640	289	309	862	700	250	1548	3348	564	7688
169	111	105	320	275	247	431	630	200	774	1674	282	3844
664	45	322	1	5	117	135	21	100	117	149	23	
1191	61	358	18	8	6	117	135	21	100	117	149	23
.020	.014	.013	.011	.019	.019	.019	.019	.019	.013	.028	.009	
.25	.06	.04	.32	.20	.20	.64	.20	.20	.65	.58	.35	
.60	.90	.90	.20	.50	.50	.50	.50	.50	.50	.20	.50	

MC	-----Model Price Wedges (US \$/MT)-----				-----Model Price Wedges (%)-----				-----Producer and Consumer Subsidy Equivalent Rates-----				---Budget Wedges (US \$/MT)---				Set-aside P.			
1989	DPSM	CSM	ESW	MSM	DPSM%	CSM%	ESW%	MSM%	PSEIPI%	CSEIPI%	PSE	CSE	MS	Import	Export	PSSE	EBSE	Cons.	Share US \$/MT	SUPTAX
BF																				
PK																				
ML																				

WH	CN	CG	RI	SB	SM	SO	OS	OM	CO	CT	SU	TB
3927	403	3071	3	2	20	193	87	129	9	527	6	
4933	494	3071	28	26	20	136	193	142	35	810	16	
-1006	-91	-25	-24	-136	3	-13	-26	-263	-10			
1006	91	25	22	136	3	30	4	263	10			
169	111	105	320	275	247	431	630	200	774	1674	282	3844
169	111	105	320	275	247	431	630	200	774	1674	282	3844
241	123	117	640	289	309	862	700	250	1548	3348	564	7688
169	111	105	320	275	247	431	630	200	774	1674	282	3844
664	45	322	1	5	117	135	21	100	117	149	23	
1191	61	358	18	8	6	117	135	21	100	117	149	23
.020	.014	.013	.011	.019	.019	.019	.019	.019	.013	.028	.009	
.25	.06	.04	.32	.20	.20	.64	.20	.20	.65	.58	.35	.50
.60	.90	.90	.20	.50	.50	.50	.50	.50	.50	.20	.50	
WH	CN	CG	RI	SB	SM	SO	OS	OM	CO	CT	SU	TB
Wheat	Coarse Gr.	Rice	Soybeans	SoyMeal	SoyOil	O. oilSeeds	O. Meals	Other Oils	Coiton	Sugar (rfind.)	Tobacco	

Summary of support (%):		Value share of-	-----Share of-----	Source-		Summary of base		Million	Base model spreadsheet -->		Exchange rates in:		Base data ----->	
Meat & eggs	Support Measures	Prod.	Support	Agri.	Consumer	Information:	US \$	1859	Base model spreadsheet	AF89dMC	Model spreadsheet	1	Base data	AF89dMC
Food crops	PSE	-Prod.	-Cons.	Support	Transfer	Production Value		1859	Support spreadsheet <td></td> <td>Support spreadsheet<td>1</td><td></td><td></td></td>		Support spreadsheet <td>1</td> <td></td> <td></td>	1		
Feed crops		21.3	21.2			Consumption Value		1859	Currency unit per US\$		Currency unit per US\$	US \$		
Oilseeds, prod.		35.8	33.6			Government Expenditures		3596	Base year ----->		Base year	1989		
Other crops		19.8	11.7			Producer Support								
Animal Products		13.1	14.1			Consumer Transfer								
Crops, oilseeds		10.0	19.4			Total TDS Estimate	0							
All products		21.3	21.2			Last update	2/7/92							
		78.7	78.8			Date printed	2/18/92							
		100.0	100.0											



TN	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product			
	Prod. Supply	Cons. Demand	Exports	Imports	World Price	Market Price	Producer Price	Consumer Price	Trade share C	Producer Price	Cons. Price	Base Value	G. Exp.	Price Trans.	Elast.	PIELAS	definition	and	Trade D.	
1989					WPRI	MPRI	PRPRI	CPRI	TPRI	PRSHR	BPVAL	BOVAL	GABMS	SUPROW	INCLAS	PTLAS			M US\$	VTD\$
PE	303	300	3	3	1696	1696	1696	1696	1696	.60	514	848	.034	.56	.70		PE	Poultry, Eggs		
WH	420	1286	-866	866	169	169	169	169	169	.70	71	310	.016	.15	.30		WH	Wheat		
CN	1	276	-275	275	111	111	111	111	111	.90	21	34	.030	.04	.90		CN	Corn		
CG	200	475	-275	275	320	320	320	320	320	.50		55	.009	.09	.90		CG	O. Coarse Gr.		
RI					320	320	320	320	320	.50			.006	.34	.30		RI	Rice		
SB		18	-18	18	275	275	275	275	275	.55		5	.030	.10	.50		SB	Soybeans		
SM		121	-121	121	247	247	247	247	247	.80		37	.030	.10	.50		SM	SoyMeal		
SO		101	-101	101	431	431	431	431	431	.50		87	.030	.57	.50		SO	SoyOil		
OS	57	57			630	630	630	630	630	.90	36	40	.010	.10	.50		OS	O. oilSeeds		
OM					200	200	200	200	200	.80			.010	.10	.50		OM	O. Meals		
OO	55	41	14	33	774	774	774	774	774	.50	43	63	.010	.54	.50		OO	Other Oils		
CT		28	-28	28	1674	1674	1674	1674	1674	.50		94	.005	.43	.50		CT	Cotton		
SU	30	230	-200	200	282	282	282	282	282	.50	8	130	.019	.22	.20		SU	Sugar (rfind.)		
TB	5	10	-5	6	3844	3844	3844	3844	3844	.50	19	77	.010	.43	.50		TB	Tobacco		
TN																				
1989																				
PE																				
WH																				
CN																				
CG																				
RI																				
SB																				
SM																				
SO																				
OS																				
OM																				
OO																				
CT																				
SU																				
TB																				
Summary of support (%):																				
Heat & eggs																				
Food crops																				
Feed crops																				
Oilseeds, prod.																				
Other crops																				
Animal Products																				
Crops, oilseeds																				
All products																				

1989

## SUPPLY ELASTICITIES

SUPPLY ELASTICITIES													Self Suffic. Ratio	Value (Million US\$) of Production Exports		
WH	CN	CG	RI	SB	SM	SO	OS	OM	OO	CT	SU	TB	Row Sum			
50	-.45	-.10											.40	WH	50	2
	-.13	.45										-.01	.34	CG	38	
			.30				-.05					-.01	.20	RI	22	
	-.09			.10									.01	SB		
				-.50	.20	.35							.05	SM		
				-.50	.20	.35							.15	SO		
		-.01					.16						.05	OS	183	6
							-.35	.05					.05	OM	15	2
							-.35	.05					.05	OO	104	9
		-.01							.40				.39	CT	72	7
			-.02							.12			.10	SU	10	5
	-.03									.15			.12	TB	19	8

## Demand Elasticity Matrix for --&gt; AF89b0c04

1989

## DEMAND ELASTICITIES

[illegible]

Commodity	Base Quantity Data (1000 MT)				Base Price Data (US\$/MT)				Base Values (M. US\$)				Projection parameters				Product definition and mnemonic	Trade D. M US\$ VTDS
	Prod. SUPPLY	Cons. DEMAND	P-C-E-I Exports	Imports	World PRICE	Market PRICE	Producer PRICE	Consumer PRICE	Trade share C. PRICE	PR SHARE	Prod. BVALUE	Cons. BVALUE	CAEM6 SUPROW	Price Trans. ELAST.	PTELAS			
1989																		
WH		170	-170		170	169	169	241	169	70	41		.014	.63	.40	WH	Wheat	
CG	450	450			111	111	111	123	111	.90	55		.013	.16	.50	CG	Coarse Gr.	
RI	360	360			105	105	105	117	105	.90	42		.006	.12	.50	RI	Rice	
SB	70	115	-45	5	320	320	320	640	320	.50	74		.011	.72	.20	SB	Soybeans	
SM					275	275	275	289	275	.95			.030	1.00	.50	SM	SoyMeal	
SO					247	247	247	309	247	.80			.030	1.00	.50	SO	SoyMeal	
OS	290	281	9	9	431	431	431	862	431	.50	183		.008	1.10	.50	OS	OilSeeds	
OM	75	63	12	12	630	630	630	700	630	.90	15		.008	1.10	.50	OM	Oil Meals	
OO	134	124	10	10	200	200	200	250	200	.80	16		.008	1.10	.50	OO	Other Oils	
CT	43	4	39	46	1674	1674	1674	1548	1674	.50	104		.008	.94	.50	CT	Cotton	
SU	35	35			282	282	282	564	282	.50	13		.017	1.10	.50	SU	Sugar (rfind.)	
TB	5	5		2	3844	3844	3844	7688	3844	.50	19		.015	.93	.50	TB	Tobacco	
OM																		
1989																		
<div> <div> --Model Price Wedges (US \$/MT)-- DPSW CSW ESW MSW </div> <div> --Model Price Wedges (%)-- ESM% CSM% DSM% MSM% </div> <div> --Producer and Consumer Subsidy Equivalent Rates-- PSE CSE MSE MS </div> <div> Mkt. S. US \$/MT US \$/MT US \$/MT </div> </div>																		

WH CG RI SB SM SO OS OM OO CT SU TB

Summary of support (%)	Support Measures	Value share of -Prod.	Share of -Prod. Support	Source- Agric. Budget Transfer	Summary of base information:		Exchange rates in:		Base data	
					Production Value	Market Value	Model spreadsheet	Support spreadsheet	Base year	AF89DOM
Food crops		4.4	16.7		513	513	1	1		
Feed crops		17.1	14.2		513	513	1	1		
Oilseeds, prod.		58.8	58.8		688	688				
Other crops		19.7	10.4							
Crops, oilseeds		100.0	100.0							
ALL products		100.0	100.0							
<div> Last update 2/ 7/92  Date printed 2/ 7/92 </div>										AF89DOM



Supply Elasticity Matrix for --> AF89bGH										1989										SUPPLY ELASTICITIES										Value (Million US\$) of Production Exports									
										WH	CN	CG	RI	OS	OM	CO	CT	SU	TB	Row Sum	Self Suffic. Ratio																		
										.50	.45	-.10	.30	-.05		-.10			-.01	.40	WH	1.04																	
											-.19	.45				-.01				.34	OM	1.00																	
																				.20	CG	.47																	
																				.29	RI																		

[illegible]



[illegible]

Supply Elasticity Matrix for --> AF89b1C													1989	SUPPLY ELASTICITIES													Value (Million US\$) of Production Exports							
WH	CN	CG	RI	SM	OS	OM	OO	CT	SU	TB	Row Sum	Self Suffic. Ratio																						
.50	.45	-.01			-.05			-.10		-.01	-.40	1.00	WH														61							
	-.07	.45	.30					-.01	-.01		-.32	1.00	CN														9							
				.30							.29	.62	RI														149							
					.16	.02	.35				.30		SM														239							
					-.32	.02	.35				.16	1.01	OS														15							
					-.32	.02	.35				.05	11.00	OM														269							
								.40			.05	2.04	OO														181							
									.12		.09	1.07	CT														43							
										.15	.07	.40	SU														8							
													TB																					
Product definition and mnemonic:																																		
Demand Elasticity Matrix for --> AF89b1C													1989	DEMAND ELASTICITIES																				
WH	CN	CG	RI	SM	OS	OM	OO	CT	SU	TB	Row Sum	S-D																						
													WH														Wheat							
													CN														Corn							
													CG														other							
													RI														Coarse Grains							
													SM														SoyMeal							
													OS														Other oilSeeds							
													OM														Other Meals							
													OO														Other Oils							
													CT														Cotton							
													SU														Sugar (refined)							
													TB														Tobacco							
Shares of Product Going to Intermediate Demand for --> AF89b1C																																		
Supply-->													Feed Ratios (Total feed/animal prod.)													Date printed 2/7/1992 Last update 2/7/1992								
WH	CN	CG	RI	SM	SSO	SOM	S00	Row Sum	Final Dem. Share	Final Dem. Elas.																								
													SBF	SPK	SNL	SPL	SWM	SPE	SOM														Base Year 1989	
													.Feed mix percent by animal product.													Exchange rate (LC/US\$) 1989								
													SBF	SPK	SNL	SPL	SWM	SPE	SOM	WH														Transmission elast.
																				CN														Income growth rate
																				CG														Population growth rate
																				SM														Income (Million US\$)
																				OS														Population (1000)
																				OO														Per Capita Income (\$)
																				OM														Model spreadsheet -->
																				CT														
																				SU														
																				TB														
Elasticities for --> AF89b1C																																		

IC 1989

-----Base Quantity Data ('000 MT)-----  
 Prod. Cons. P-C-E-I Exports Imports  
 SUPPLY DEMAND NTRADE EXPORTS IMPORTS

-----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WOPRICE MPPRICE PRPRICE CUPRICE

-----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BVALUE BOVALUE GAEHS SUPGROW INCELAS PIELAS

-----Projection parameters  
 GAEHS SUPGROW INCELAS PIELAS

Product definition and mnemonic:  
 Trade D.  
 M US\$  
 VIDS

WH CN CG RI SM OS OM OO CT SU TB

1989

-----Base Quantity Data ('000 MT)-----  
 Prod. Cons. P-C-E-I Exports Imports  
 SUPPLY DEMAND NTRADE EXPORTS IMPORTS

-----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WOPRICE MPPRICE PRPRICE CUPRICE

-----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BVALUE BOVALUE GAEHS SUPGROW INCELAS PIELAS

-----Projection parameters  
 GAEHS SUPGROW INCELAS PIELAS

Product definition and mnemonic:  
 Trade D.  
 M US\$  
 VIDS

WH CN CG RI SM OS OM OO CT SU TB

1989

-----Base Quantity Data ('000 MT)-----  
 Prod. Cons. P-C-E-I Exports Imports  
 SUPPLY DEMAND NTRADE EXPORTS IMPORTS

-----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WOPRICE MPPRICE PRPRICE CUPRICE

-----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BVALUE BOVALUE GAEHS SUPGROW INCELAS PIELAS

-----Projection parameters  
 GAEHS SUPGROW INCELAS PIELAS

Product definition and mnemonic:  
 Trade D.  
 M US\$  
 VIDS

WH CN CG RI SM OS OM OO CT SU TB

1989

-----Base Quantity Data ('000 MT)-----  
 Prod. Cons. P-C-E-I Exports Imports  
 SUPPLY DEMAND NTRADE EXPORTS IMPORTS

-----Base Price Data (US\$/MT)-----  
 World Market Producer Consumer  
 WOPRICE MPPRICE PRPRICE CUPRICE

-----Base Values (M. US\$)-----  
 Prod. Cons. G. Exp. & Price Trans. Elast.  
 BVALUE BOVALUE GAEHS SUPGROW INCELAS PIELAS

-----Projection parameters  
 GAEHS SUPGROW INCELAS PIELAS

Product definition and mnemonic:  
 Trade D.  
 M US\$  
 VIDS



1989

## SUPPLY ELASTICITIES

[illegible]

## DEMAND ELASTICITIES

[illegible]

Shares of Product Going to Intermediate Demand for --> AF89bLB

Supply->

[illegible]

LB	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product definition and immanic:							
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I NTRADE	Exports EXPORTS	Imports IMPORTS	World WOPRICE	Market MOPRICE	Consumer PPRICE	Trade share C. TPRPRICE	Prod. BPVALUE	Cons. BOVALUE	G. Exp. GAB\$	& Price Trans. SUPGROW	Elast. INCELAS	PTELAS									
WH		20	-20		20	169	169	169	241	169	.70	5	.014	.63	.40	WH	Wheat							
RI	168	273	-105	15	120	320	320	320	640	320	.50	54	.011	.72	.20	RI	Rice							
OS	50	50				630	630	630	700	630	.90	35	.008	1.10	.50	OS	O. oilSeeds							
OM	4	4				200	200	200	250	200	.80	1	.008	1.10	.50	OM	O. Meals							
OO	38	34	4	4		774	774	774	1548	774	.50	53	.008	.94	.50	OO	Other Oils							
SU		11	-11		11	282	282	282	564	282	.50	6	.024	.62	.20	SU	Sugar (rfind.)							
LB	-----Model Price Wedges (US \$/MT)-----				-----Model Price Wedges (%)-----				-----Producer and Consumer Subsidy Equivalent Rates-----				-----Mkt. S.-----				---Budget Wedges (US \$/MT)---				Set-aside P.			
1989	DPSW	CSW	ESW	MSW	DPSW	CSW	ESW	MSW	PSEIP%	CSEIP%	PSEIP%	CSEIP%	PSE	CSE	MS	MBSE	EBSE	PRSE	Cons. CSSE	Share US \$/MT	SIDE SUPTAX			
WH																								
RI																								
OS																								
OM																								
OO																								
SU																								
Summary of support (%):	Value share of-				-----Share of-----				Source-				Summary of base				Base model spreadsheet --->				AF89dLB			
	-Prod.				Prod.				Agric.				information:				Support spreadsheet ----->				AF89sLB			
Oilseeds, prod.	46.6				65.4				Production Value				Market Value				Exchange rates in:				1			
Other crops	53.4				32.3				Consumption Value				Government Expenditures				Model spreadsheet				1			
	100.0				2.3				Producer Support				Consumer Transfer				Support spreadsheet				US \$			
Crops, oilseeds	100.0				100.0				Total TDS Estimate				Base year ----->				Currency unit per US\$				1989			
All products	100.0				100.0				Last update				Date printed				Base data ----->				AF89dLB			
									2/7/92				2/18/92											

1989	SUPPLY ELASTICITIES										Row	Self Suffic. Ratio	Value (Million US\$) of Production Exports	
	WH	CN	CG	RI	SO	OS	OM	OO	CT	SU	TB	Sum		
WH	.50											.40	WH	93
CN	-.45	-.10							-.10			.35	CN	82
CG	-.02	.45							-.01			.37	CG	23
RI			.30							-.01		.29	RI	37
SO					-.05								SO	01
OS					.16							.15	OS	97
OM					-.35	.10	.30					.05	OM	11.32
OO					-.35	.10	.30	.30				.05	OO	2.04
CT									.40			.35	CT	5.35
SU										.12		.11	SU	51
TB											.15	.11	TB	

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	Supply Elasticities												Self Suffic.	Value (Million US\$) of Production Exports	
	WH	CN	CG	RI	SO	OS	OM	OO	CT	SU	TB	Row Sum	Ratio		
1989															
AF89bZr															
Elasticity Matrix for --> AF89bZr															
WH	.50											.40	.01	1	
CN	.45	-.10										.34	.99	129	
CG	-.02	.45										.37	1.00	619	
RI			.30									.30	.67	240	6
SO					-.05										
OS					.16										
OM					-.39	.10						.12	1.13	805	92
OO					-.39	.10	.34					.05	1.17	73	13
CT					-.01		.34					.39	1.06	265	22
SU								.40				.07	26.82	494	475
TB									.12			.05	.19	17	
B										.15		.07	.57	15	

DEMAND ELASTICITIES													Product definition and memorandum:	
	WH	CN	CG	RI	SO	OS	OM	CO	CT	SU	TB	Row Sum	S-D Sum	
WH														Wheat
CN														Corn
CG														other Coarse Grains
RI														Rice
SB														Soybeans
SM														SoyMeal
SO														Oil
OS														Other oilSeeds
OM														Other Meals
CO														Other Oils
CT														Cotton
SU														Sugar (refined)
TB														Tobacco
Feed Ratios (Total feed/animal prod.)														

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Supply Elasticity Matrix for --> AF89bCF										1989										SUPPLY ELASTICITIES										Value (Million US\$) of Production Exports									

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Variable	Mean	SD	Min	Max	Sum	Ratio
W	.50	.45	-.07	.45	.47	.53
N					.34	1.00
O					.36	1.00
G						
E						
R						
I						
X						
M						
S						
B						
C						
D						
F						
J						
K						
L						
P						
Q						
T						
V						
Y						
Z						

	1989	DEMAND ELASTICITIES	Row	S-D	Product definition and mnemonic:
Demand Elasticity Matrix for --> AF89bEP					

[illegible]

[illegible]



Supply Elasticity Matrix for --> AF89bky											
1989											
SUPPLY ELASTICITIES											
WH	CN	CG	RI	SM	SO	OS	OM	OO	CT	SU	TB
Row	Sum	TB	SU	CT	OO	OM	OS	SO	SM	Dem.	Share
WH	.50	.40	.46	.30							
CN											
CG											
RI											
SM											
SO											
OS											
OM											
OO											
CT											
SU											
TB											
Value (Million US\$) of Production	40	387	34	7							
Value (Million US\$) of Exports	15										
Self Suffic. Ratio	.57	1.06	1.00	.45							
WH	.40	.40	.40	.29							
CN											
CG											
RI											
SM											
SO											
OS											
OM											
OO											
CT											
SU											
TB											
Product definition and mnemonic:											
WH	Wheat	WH	.68	.28	.01						
CN	Corn	CN	.69	.29	.01						
CG	other Coarse Grains	CG	.68	.28	.01						
RI	Rice	RI	.40	.11	.01						
SM	SoyMeal	SM	.71	.30							
SO	SoyOil	SO	.51	.10							
OS	Other oilSeeds	OS	.20	.12							
OM	Other Meals	OM	.35	.30							
OO	Other Oils	OO	.20	.20							
CT	Cotton	CT	.58	.47							
SU	Sugar (refined)	SU	.39	.27							
TB	Tobacco	TB	.20	.20							
Date printed	2/3/1992										
Last update	1/30/1992										
Base year	1989										
Exchange rate (LC/US\$)											
Transmission elast.											
Income growth rate											
Population growth rate											
Income (Million US\$)											
Population (1000)											
Per Capita Income (\$)											
Model spreadsheet	AF89bky										
Elasticities for -->	AF89bky										

[illegible]



SM	Prod. SUPPLY	Base Quantity Data (1000 MT)	Base Price Data (US\$/MT)	Producers	Base Values (M. US\$)	Projection parameters	Product definition and immanonic	Trade D. M US\$ VTDS
1989		Prod. Cons. P-G-E-I Exports Imports	World Market Producer Consumer	Trade share C: TDPRICE	Prod. Cons. BPVALUE	G. Exp. & Price Trans. Elast. SUPGROW INCELAS PTELAS		
WH	250	150	169	169	241	.014	Wheat	
CN	255	50	111	111	123	.013	Coarse Gr.	
CG	255	50	105	105	117	.006	Coarse Gr.	
RI	8	90	320	320	640	.011	Rice	
SO	3	20	431	431	862	.008	SoyOil	
OS	1	3	630	630	700	.008	Oil Seeds	
OM	1	20	200	200	250	.008	Meals	
OO	2	1	774	774	1548	.008	Other Oils	
CT	45	45	1674	1674	3348	.017	Cotton	
SU			282	282	564	.024	Sugar (rind.)	
SM	1989	Model Price Wedges (US \$/MT)	Model Price Wedges (%)	Producer and Consumer Subsidy Equivalent Rates	US \$/MT	Import Export	Set-aside P. Cons. Share US \$/MT	
		DPSW CSM	CSM% ES% MSW%	% Internal Price PSEIP% CSEIP% PSEIP%	US \$/MT	MSSE EBSE	Prod. Cons. CSSE S-SIDE SUP/TAX	
WH								
CN								
CG								
RI								
SO								
OS								
OM								
OO								
CT								
SU								
Summary of support (%):		Support Measures PSE	Value share of -Prod. -Cons.	Share of -Prod. Support	Source- Agric. Consumer Budget Transfer	Base model spreadsheet ---> AF89aSM	Support spreadsheet ---> AF89aSM	
Food crops			3.4	35.7	Production Value	Exchange rates in:		
Feed crops			72.5	24.1	Market Value	Model spreadsheet		
Oilseeds, prod.			2.8	18.3	Consumption Value	Support spreadsheet		
Other crops			21.3	21.9	Government Expenditures	Currency unit per US\$		
					Producer Support	Base year		
					Consumer Transfer			
					Total TDS Estimate			
Crops, oilseeds			100.0	100.0				
All products			100.0	100.0				
					Summary of base information:	Million US \$		
					Production Value	75		
					Market Value	75		
					Consumption Value	277		
					Government Expenditures			
					Producer Support			
					Consumer Transfer			
					Total TDS Estimate	0		
					Last update	2/7/92		
					Date printed	2/18/92		
					Base data			



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TZ	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters & Price Trans. Elast.---				Trade D.						
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I	TRADE	World	Market	Producer	Consumer	Imports	Exports	Imports	Exports	World	Market	Producer	Trade share C.	Prod. BVALUE	Cons. BVALUE	G. Exp. GAEM\$	Supp. INCELAS	Elast. PTELAS	Product definition and mnemonic	
WH	95	135	-40		169	169	169	241	169	169	169	169	169	169	169	169	33	298	.63	.014	.40	WH	Wheat
CN	2450	2420	30		111	111	111	123	111	111	111	111	111	111	111	111	298	298	.16	.013	.50	CN	Corn
CG	688	688			105	105	105	117	105	105	105	105	105	105	105	105	80	80	.12	.006	.50	CG	o. Coarse Gr.
RI	485	535	-50		320	320	320	640	320	320	320	320	320	320	320	320	342	342	.72	.011	.20	RI	Rice
SO		10	-10		431	431	431	862	431	431	431	431	431	431	431	431	9	141	.92	.008	.50	SO	Soyoil
OS	202	202			630	630	630	700	630	630	630	630	630	630	630	630	141	141	1.10	.008	.50	OS	o. oilseeds
OM	70	49	21		200	200	200	250	200	200	200	200	200	200	200	200	12	12	1.10	.008	.50	OM	o. Meals
CO	48	98	-50		774	774	774	1548	774	774	774	774	774	774	774	774	152	152	.94	.008	.50	CO	Other Oils
CT	38	1	37		1674	1674	1674	3348	1674	1674	1674	1674	1674	1674	1674	1674	64	64	1.10	.017	.50	CT	Cotton
SU	101	120	-19		282	282	282	564	282	282	282	282	282	282	282	282	68	68	.62	.024	.20	SU	Sugar (rfind.)
TB	13	4	9		3844	3844	3844	7688	3844	3844	3844	3844	3844	3844	3844	3844	31	31	.93	.015	.50	TB	Tobacco
TZ	--Model Price Wedges (US \$/MT)--				---Model Price Wedges (%)---				---Producer and Consumer Subsidy Equivalent Rates--- Mkt. S.				---Budget Wedges (US \$/MT)---				Set-aside P.						
1989	DPSW	CSW	ESW	NSW	DPSM%	CSM%	ESM%	NSM%	PSE1P%	CSE1P%	PSE2P%	CSE2P%	MS	MESE	EBSE	Prod. P8SE	Cons. S-SIDE	Share US \$/MT	Share US \$/MT	US\$	VTDS		
WH																							
CN																							
CG																							
RI																							
SO																							
OS																							
OM																							
CO																							
CT																							
SU																							
TB																							
Summary of support (%)																							





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AE	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product definition and immanonic						
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I NTRADE	Imports EXPORTS	World WDPRI	Market MPPRI	Producer PRPRI	Consumer CNPRI	Trade share C. TDPRICE	Producer PRSHARE	Prod. BPVALUE	Cons. BCVALUE	G. Exp. CAEMS	& Price Trans. SUPGROW	Elast. PTELAS								
WH	240	25	-25		169	169	169	169	241	169	27	6	.014	.63	.40	Wheat							
ON	322	240			111	111	111	111	123	111	30	30	.013	.16	.50	Corn							
CG		322			105	105	105	105	117	105	34	38	.006	.12	.50	Coarse Gr.							
OS	86	86			630	630	630	630	700	630	54	60	.008	1.10	.50	O. oilSeeds							
OM	2	2			200	200	200	200	250	200	2	9	.008	1.10	.50	O. Meals							
OO	6	6	-4	4	774	774	774	774	1548	774			.008	.94	.50	Other Oils							
SU	9	52	-43	43	282	282	282	282	564	282	3	29	.024	.62	.20	Sugar (rfind.)							
TB	1	2	-1	1	3844	3844	3844	3844	7688	3844	4	15	.015	.93	.50	Tobacco							
AE	-----Model Price Wedges (US \$/MT)-----				-----Model Price Wedges (%)-----				-----Producer and Consumer Subsidy Equivalent Rates-----				Mkt. S.				Set-aside P.						
1989	DPSW	CSW	ESW	DPSW	CSW	ESW	MSW	PSETP%	% Internal Price	% World Price	CSEMP%	PSE	MS	EBSE	Export	Prod.	Share US \$/MT	Share US \$/MT	SIDE	SUPTAX			
WH																							
ON																							
CG																							
OS																							
OM																							
OO																							
SU																							
TB																							
Summary of support (%):																							
Support Measures				Value share of-				-----Share of-----				Summary of base				Base model spreadsheet -->				AF89aE			
PSE				-Cons.				Produc.				information:				Support spreadsheet ----->					AF89aE		
								Agric. Budget				Production Value				Exchange rates in:					1		
								Consumer Transfer				Market Value				Model spreadsheet					1		
												Consumption Value				Support spreadsheet					US\$		
												Government Expenditures				Currency unit per US\$					1989		
												Producer Support				Base year ----->							
												Consumer Transfer											
												Total TDS Estimate											



1989

## SUPPLY ELASTICITIES

[illegible]

Demand Elasticity Matrix for --&gt; AF89BAG

1989

## DEMAND ELASTICITIES

[illegible]

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MG	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Product definition and mnemonic:							
1989	Prod. SUPPLY	Cons. DEMAND	P-C-E-I	Exports	Imports	World	Market	Consumer	Trade share C.	Prod. BPVALUE	Cons. BOVALUE	G. Exp. GAE\$	& Price Trans. SUPGROW	Elast. INCELAS	PIELAS									
WH	165	60	-60		60	169	169	241	169	.70	14		.014	.63	.40	Wheat								
ON		165				111	111	123	111	.90	20		.013	.16	.50	Corn								
RI	1475	1630	-155		155	320	320	640	320	.50	472	1043	.011	.72	.20	Rice								
SO		8	-8		8	431	431	862	431	.50	7		.008	.92	.50	SoyOil								
OS	72	70	2	2		630	630	700	630	.90	49		.008	1.10	.50	O. oilSeeds								
OM	20	18	2	2		200	200	250	200	.80	4		.008	1.10	.50	O. Meals								
OO	9	17	-8		8	774	774	1548	774	.50	26		.008	.94	.50	Other Oils								
CT	14	14				1674	1674	3348	1674	.50	23		.017	1.10	.50	Cotton								
SU	120	94	26	26		282	282	564	282	.50	34		.024	.62	.20	Sugar (rfind.)								
TB	5	5				3844	3844	7688	3844	.50	19		.015	.93	.50	Tobacco								
MG	---Model Price Wedges (US \$/MT)---				---Model Price Wedges (%)---				---Producer and Consumer Subsidy Equivalent Rates---				Mkt. S.				---Budget Wedges (US \$/MT)---				Set-aside P.			
1989	DPSW	CSW	ESW	MSW	DPSW%	CSW%	ESW%	MSW%	% Internal Price	% World Price	PSE	CSE	MS	MBSE	EBSE	PBSE	Share US \$/MT	Share US \$/MT	SUPTAX					
									PSE1P%	CSE1P%	PSE	CSE	MS	MBSE	EBSE	PBSE	CBSE	S-SIDE	SUPTAX					
WH																								
ON																								
RI																								
SO																								
OS																								
OM																								
OO																								
CT																								
SU																								
TB																								
Summary of support (%):	Support Measures	Value share of-	-----Share of-----	-----Source-----																				
	PSE	-Prod.	Prod.	Agric.																				
			Support	Budget																				
Food crops		75.7	81.2																					
Feed crops		2.9	1.6																					
Oilseeds, prod.		9.0	6.7																					
Other crops		12.3	10.6																					
Crops, oilseeds		100.0	100.0																					
All products		100.0	100.0																					
				Summary of base information:	Million US \$																			
				Production Value	623																			
				Market Value	623																			
				Consumption Value	1303																			
				Government Expenditures																				
				Producer Support																				
				Consumer Transfer																				
				Total TDS Estimate	0																			
				Last update	2/ 7/92																			
				Date printed	2/18/92																			
				Base data	----->				AF89DMG															



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MZ	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters				Trade D.							
1989	Prod.	Cons.	P-C-E-I	Supply	World	Market	Producer	Consumer	Trade share C.	Prod.	Cons.	G. Exp.	G. Exp.	& Price Trans.	Elast.	GAEM\$	BOVALUE	BOVALUE	INCELAS	PTIELAS	Product definition and immanic:			
	DEMAND	NTRADE	EXPORTS	IMPORTS	WDPRICE	MPPRICE	PRPRICE	CNPRICE	TDPRICE	PRSHARE	BPVALUE	BOVALUE	GAEM\$	SUPGROW	INCELAS	PTIELAS								
WH	2	157	-155	155	169	169	169	241	169	70	38	38	.014	.63	.40		WH	WH	WH	Wheat				
ON	453	653	-200	200	111	111	111	123	111	90	50	81	.013	.16	.50		ON	ON	ON	o. Coarse Gr.				
CG	185	185			105	105	105	117	105	90	19	22	.006	.12	.50		CG	CG	CG	o. Coarse Gr.				
RI	36	166	-130	130	320	320	320	640	320	.50	12	106	.011	.72	.20		RI	RI	RI	Rice				
OS	209	198	11	11	630	630	630	700	630	90	132	139	.008	1.10	.50		OS	OS	OS	o. oilseeds				
OM	57	56	1	1	200	200	200	250	200	.80	11	14	.008	1.10	.50		OM	OM	OM	o. Meals				
CO	57	122	-65	5	774	774	774	1548	774	.50	44	189	.008	.94	.50		CO	CO	CO	Other Oils				
CT	27	14	13	14	1674	1674	1674	3348	1674	.50	45	47	.017	1.10	.50		CT	CT	CT	Cotton				
SU	50	78	-28	12	282	282	282	564	282	.50	14	44	.024	.62	.20		SU	SU	SU	Sugar (rfind.)				
TB		1	-1	1	3844	3844	3844	7688	3844	.50	8	8	.015	.93	.50		TB	TB	TB	Tobacco				
MZ	-----Model Price Wedges (US \$/MT)-----				-----Model Price Wedges (%)-----				-----Producer and Consumer Subsidy Equivalent Rates-----				Mkt. S.				---Budget Wedges (US \$/MT)---				Set-aside P.			
1989	DPSW	CSW	ESW	MSW	DPSM%	CSM%	ESM%	PSEIP%	CSEIP%	PSEMP%	CSEMP%	PSE	CSE	US \$/MT	MS	Import	Export	Prod.	Cons.	Share US \$/MT				
																MSSE	EBSE	EBSE	OSSE	S-SIDE	SUPTAX			
WH																								
ON																								
CG																								
RI																								
OS																								
OM																								
CO																								
CT																								
SU																								
TB																								
Summary of support (%):	Value share of-Prod.				-----Share of-Prod.				-----Source-				Summary of base information:				Million US \$							
Food crops	3.6	21.0	21.0	21.0	3.6	21.0	21.0	21.0	3.6	21.0	21.0	21.0	3.6	21.0	21.0	21.0	328	328	328	686				
Feed crops	21.2	14.9	14.9	14.9	21.2	14.9	14.9	14.9	21.2	14.9	14.9	14.9	21.2	14.9	14.9	14.9	328	328	328	686				
Oilseeds, prod.	57.1	49.7	49.7	49.7	57.1	49.7	49.7	49.7	57.1	49.7	49.7	49.7	57.1	49.7	49.7	49.7	328	328	328	686				
Other crops	18.1	14.4	14.4	14.4	18.1	14.4	14.4	14.4	18.1	14.4	14.4	14.4	18.1	14.4	14.4	14.4	328	328	328	686				
Crops, oilseeds	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
All products	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
	Last update				2/7/92				Date printed				2/18/92											
	Base data				----->				AF89MZ															
	Base model spreadsheet				----->				AF89MZ															
	Support spreadsheet				----->				AF89MZ															
	Exchange rates in:																							
	Model spreadsheet																							
	Support spreadsheet																							
	Currency unit per US\$																							
	Base year																							







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OF	1989	-----Base Quantity Data (1000 MT)-----				-----Base Price Data (US\$/MT)-----				-----Base Values (M. US\$)-----				---Projection parameters G. Exp. & Price Trans. Elast. GAEM6 SUPGROW INCELAS PTELAS				Product definition and mnemonic:	Trade D. M US\$ VTDS		
		Prod. SUPPLY	Cons. DEMAND	P-C-E-I NTRADE	Exports EXPORTS	Imports IMPORTS	World WPRICE	Market MPRICE	Producer PRPRICE	Consumer CUPRICE	Trade share C. TDPRICE	PRSHARE	BPVALUE	BCVALUE	BOVALUE	Cons. CAEM6					
WH		105	-105			105	169	169	169	241	169	.70	25	.63	.40	WH	Wheat				
CN		50	-50			50	111	111	111	123	111	.90	6	.16	.50	CN	Corn				
RI		120	-120			120	320	320	320	640	320	.50	77	.72	.20	RI	Rice				
SO		20	-20			20	431	431	431	862	431	.50	17	.92	.50	SO	SoyOil				
OS	5	4	1	1			630	630	630	700	630	.90	3	1.10	.50	OS	O. oilSeeds				
OO		5	-5			5	774	774	774	1548	774	.50	8	.94	.50	OO	Other Oils				
SU	934	50	884	889		5	282	282	282	564	282	.50	263	.62	.20	SU	Sugar (rfind.)				
TB	1	1					3844	3844	3844	7688	3844	.50	4	.93	.50	TB	Tobacco				
OF	1989	--Model Price Wedges (US \$/MT)-- DPSW CSW ESW MSW				-----Model Price Wedges (%)----- DPSM% CSM% ESM% MSM%				---Producer and Consumer Subsidy Equivalent Rates--- % Internal Price % World Price PSEIP% CSEIP% PSEW% CSEW%				Mkt. S. ---Budget Wedges (US \$/MT)--- Import Export MBSE EBSE				Set-aside P. Prod. Cons. Share US \$/MT PBSE CBSE S-SIDE SUPTAX			
Summary of support (%):		Support Measures PSE	Value share of- -Prod. -Cons.	-----Share of----- Prod. Support		-----Source- Agric. Consumer Budget Transfer		Summary of base information:		Million US \$		Exchange rates in: Model spreadsheet Support spreadsheet Currency unit per US\$ Base year ----->		Base model spreadsheet --> Support spreadsheet ----->		AF89DOF AF89DOF					
Food crops			59.4						Production Value	270											
Feed crops			3.6						Market Value	270											
Oilseeds, prod.			16.2						Consumption Value	172											
Other crops			20.9						Government Expenditures												
			1.2						Producer Support												
			98.8						Consumer Transfer												
			100.0						Total TDS Estimate	0											
Crops, oilseeds			100.0																		
All products			100.0																		
									Last update date printed	2/7/92 2/18/92											
									Base data ----->								AF89DOF				





[illegible]

## Appendix 7--SWOPSIM Data Manipulation Programs

This appendix lists SWOPSIM data manipulation programs that move quantity supply and utilization data from the 189-country FAS PS&D TS-VIEW database through the intermediate TS VIEW 143 country SWOPSIM database to base quantity spreadsheets ("t" files) for country models. The first part of the program is the screen generator, which gives on screen information about the program and its requirements. The programs are all DOS batch programs that write spreadsheet macros to accomplish the work.

```
:SWOPDATA
ECHO OFF
CLS
ECHO -----
ECHO SWOPSIM Data Conversion Program
ECHO -----
ECHO SWOPDATA      Program to get a complete set of 22+ SWOPSIM products from
ECHO              the 189 country FAS TSview supply and utilization
ECHO              data set. The program calls TSGET for each SWOPSIM product
ECHO              and does some subtraction of data sets to form "other"
ECHO              SWOPSIM product data sets.
ECHO REQUIREMENTS 189 country complete TSview Supply and Utilization data
ECHO              for products.
ECHO OUTPUT (D:)   Packed set of 22+ SWOPSIM product (189 country) TS files
ECHO              and a packed file MNU containing all of associated TS menus.
ECHO -----
ECHO COMMAND      SWOPDATA
ECHO -----
ECHO REM You must have the correct location for the TSview 189 country data set in
ECHO REM the following statements (currently the E:\TS is the location).
ECHO IF EXIST E:\TS\TS2MNU.EXE GOTO C1
ECHO ERROR = The TS2MNU.EXE file does not exist on E:\TS. Check the TS location!
ECHO GOTO END
:C1
PAUSE
CALL TSGET BEEFVEAL BF
CALL TSGET PORK PK
CALL TSGET LAMBUTT ML
CALL TSGET TOTPLTRY PM
CALL TSGET EGGS PE
CALL TSGET FLUIDMLK DM
CALL TSGET BUTTER DB
CALL TSGET CHEESE DC
CALL TSGET NFDMLK DP
CALL TSGET WHEAT WH
CALL TSGET CORN CN
CALL TSGET COARSEGR ALLCG
CALL TSGET RICE RI
CALL TSGET SOYBEANS SB
CALL TSGET SOYMEAL SM
CALL TSGET SOYOIL SO

CALL TSGET TOTSEEDS ALLOS
CALL TSGET TOTMEALS ALLOM
CALL TSGET TOTOLLS ALLOO
CALL TSGET COTTON CT
CALL TSGET SUGAR SU
CALL TSGET TOBUNMFG TB
CALL TSGET DRYBEANS BN
CALL TSGET COFFEE CF
CALL TSGET HIDESKIN HS
CALL TSSUB ALLCG CN CG
COPY D:ALLCG.MNU D:CG.MNU
ERASE D:ALLCG.*
CALL TSSUB ALLOS SB OS
COPY D:ALLOS.MNU D:OS.MNU
ERASE D:ALLOS.*
CALL TSSUB ALLOM SM OM
COPY D:ALLOM.MNU D:OM.MNU
ERASE D:ALLOM.*
CALL TSSUB ALLOO SO OO
COPY D:ALLOO.MNU D:OO.MNU
ERASE D:ALLOO.*
CALL TSGET TALLOWGR TG
CALL TSGET CATTLEIN CI
CALL TSGET SWINEINV PI
CALL TSGET SHEEPINV SI
CALL PAC MNU D:??MNU
ERASE D:*.MNU
CLS
DIR D:/W
:END ECHO ON

:LUDDATA
ECHO OFF
CLS
ECHO -----
ECHO LW SWOPSIM Data Conversion Program
ECHO -----
ECHO LUDDATA      Program to get a complete set of SWOPSIM products from
ECHO              the 189 country FAS TSview supply and utilization
ECHO              data set for a Large World SWOPSIM model. The program
ECHO              calls TSGET for each SWOPSIM product and does some
```

```

ECHO      subtraction of data sets to form "other" data sets>
ECHO REQUIREMENTS 189 country complete TSVIEW Supply and Utilization data
ECHO      for products.
ECHO OUTPUT (D:)  Packed set of SWOPSIM product (189 country) TS files
ECHO      and a packed file MNU containing all associated TS menus.
ECHO -----
ECHO COMMAND      LWDATA
ECHO -----
REM You must have the correct location for the TSVIEW 189 country data set in
REM the following statements (currently the E:\TS is the location).
IF EXIST E:\TS\TS2MNU.EXE GOTO C1
ECHO ERROR = The TS2MNU.EXE file does not exist on E:\TS. Check the TS location!
GOTO END
:C1
PAUSE
CALL TSGET TURKEYS TK
CALL TSGET TOTPLTRY PM
CALL TSSUB PM TK BM
COPY D:PM.MNU D:BM.MNU
ERASE D:PM.*
CALL TSGET CORN CM
CALL TSGET SORGHUM SG
CALL TSGET BARLEY BY
CALL TSGET OATS OT
CALL TSGET SOYBEANS SB
CALL TSGET SOYMEAL SM
CALL TSGET SOYMEAL SO
CALL TSGET RAPESEED RS
CALL TSGET RAPEMEAL RM
CALL TSGET RAPEOIL RO
CALL TSGET SUNSEED US
CALL TSGET SUNMEAL UM
CALL TSGET SUNOIL UO
CALL TSGET PEANUTS NS
CALL TSGET PHUTMEAL NM
CALL TSGET PHUTOIL NO
CALL TSGET COARSEGR AOC
CALL TSGET TOTSEEDS ATS
CALL TSGET TOTMEALS ATM
CALL TSGET TOTOTILS ATO
CALL TSSUB AOC CN OC
COPY D:OC.TS D:AOC.TS
ERASE D:OC.TS
ERASE D:CN.EXE
CALL TSSUB AOC SG OC
COPY D:OC.TS D:AOC.TS
ERASE D:OC.TS
CALL TSSUB AOC BY OC
COPY D:OC.TS D:AOC.TS
ERASE D:OC.TS
CALL TSSUB AOC OT OC
COPY D:AOC.MNU D:OC.MNU
ERASE D:AOC.*
CALL TSSUB ATS SB TS

```

```

COPY D:TS.TS D:ATS.TS
ERASE D:TS.TS
ERASE D:SB.EXE
CALL TSSUB ATS RS TS
COPY D:TS.TS D:ATS.TS
ERASE D:TS.TS
CALL TSSUB ATS US TS
COPY D:TS.TS D:ATS.TS
ERASE D:TS.TS
CALL TSSUB ATS NS TS
COPY D:ATS.MNU D:TS.MNU
ERASE D:ATS.*
CALL TSSUB ATM SM TM
COPY D:TM.TS D:ATM.TS
ERASE D:TM.TS
ERASE D:SM.EXE
CALL TSSUB ATM RM TM
COPY D:TM.TS D:ATM.TS
ERASE D:TM.TS
CALL TSSUB ATM UM TM
COPY D:TM.TS D:ATM.TS
ERASE D:TM.TS
CALL TSSUB ATM NM TM
COPY D:ATM.MNU D:TM.MNU
ERASE D:ATM.*
CALL TSSUB ATO SO TO
COPY D:TO.TS D:ATO.TS
ERASE D:TO.TS
ERASE D:SO.EXE
CALL TSSUB ATO RO TO
COPY D:TO.TS D:ATO.TS
ERASE D:TO.TS
CALL TSSUB ATO UO TO
COPY D:TO.TS D:ATO.TS
ERASE D:TO.TS
CALL TSSUB ATO NO TO
COPY D:ATO.MNU D:TO.MNU
ERASE D:ATO.*
CALL PAC MNU D:??MNU
ERASE D:*.MNU
CLS
DIR D:/W
:END ECHO ON

```

```

:TSGET
ECHO OFF
CLS
ECHO -----
ECHO      SWOPSIM Data Conversion Program
ECHO -----
ECHO TSGET
ECHO      Program to get a product (TSNAME) from a 189 country FAS
ECHO      TSVIEW data set and convert it to a packed SWOPSIM Data set
ECHO      with a 2 digit SWOPSIM product Name (SN). An accompanying
ECHO      TSVIEW menu for SN is also created. The SN data set can be

```



```

ECHO unpacked elsewhere into a SWOPSIM 189 country Tsview data
ECHO set.
ECHO REQUIREMENTS 189 country FAS Tsview supply and utilization data set for
ECHO all products.
ECHO OUTPUT (D:) Packed Tsview data set and TS menu for SWOPSIM product SN.
ECHO -----
ECHO COMMAND TSGET TSPROD SN
ECHO -----
IF FILE%1 == FILE ECHO ERROR = You forgot Tsview TSNAME; Enter: TSGET TSNAME SN
IF FILE%1 == FILE GOTO END
IF FILE%2 == FILE ECHO ERROR = forgot SWOPSIM Name; Enter: TSGET TSNAME SN
IF FILE%2 == FILE GOTO END
IF FILE%2 == FILE GOTO END
IF FILE%3 == FILE ECHO ERROR = You forgot the new file name; Enter: TSSUB TSF1 TSF2
TSF
IF FILE%3 == FILE GOTO END
IF FILE%3 == FILE GOTO END
IF FILE%3 == FILE GOTO END
IF FILE%3 == FILE GOTO END
ECHO X1.EXE does not exist on D:
GOTO END
:C1
IF EXIST D:\%2.EXE GOTO C2
ECHO X2.EXE does not exist on D:
GOTO END
:C2
IF EXIST D:\%3.EXE ERASE D:\%3.EXE
REM You must have the correct location of the Tsview 187 product data set in the
REM following statements.
IF EXIST E:\TS\TSFILE.EXE GOTO C3
ECHO ERROR = The Tsview TSFILE.EXE utility file does not exist on E:\TS.
GOTO END
:C3
IF EXIST D:\%1.TS ERASE D:\%1.TS
IF EXIST D:\%2.TS ERASE D:\%2.TS
IF EXIST D:\%3.* ERASE D:\%3.*
D:
X1
X2
COPY E:\TS\TSFILE.EXE
TSFILE %1 - %2 = %3 /%3
C:
ERASE D:\%1.TS
ERASE D:\%2.TS
CALL PAC %3 D:\%3.TS
ERASE D:\%3.TS
ERASE D:\TSFILE.EXE
DIR D:\%3.EXE/W
:END ECHO ON

:TSSWOP
ECHO OFF
CLS
ECHO -----
ECHO Tsview country conversion (189 FAS to SWOPSIM countries) -----
ECHO TSSWOP Program to convert a 189 country/region Tsview product
ECHO file to a SWOPSIM country list Tsview product file.
ECHO REQUIREMENTS A 189 country/region TS commodity (EXE) file on D: drive
ECHO (created by SWOPDATA with the 2 digit SWOPSIM Name - SN),
ECHO TS utilities (and prepared files) on the (G:\TS) Tsview
ECHO subdirectory. Tsview utility (and prepared) files are:
ECHO TSADD.EXE (189ADD.ADD), TSSUB.EXE (189SUB.SUB, 189RW.SUB),
ECHO TSSUBSET.EXE (189ORDER.BSS), TS2PRN.EXE, PRN2TS.EXE, and
ECHO TS menus - TEMP.MNU and 22+ SWOPSIM product code menus

```

```

ECHO ECHO OUTPUT (D:) SWOPSIM TSVIEW product (SN) file for SWOPSIM countries
ECHO -----
ECHO COMMAND TSSWOP SN
ECHO -----
IF FILE%1 == FILE ECHO ERROR = You forgot SWOPSIM Name; Enter: TSSWOP SN
IF FILE%1 == FILE GOTO END
IF EXIST D:%1.TS GOTO C1
ECHO ERROR = %1.TS does not exist on the D: drive!
GOTO END
:C1
COPY G:\TS\TSADD.EXE D:
COPY G:\TS\TSUB.EXE D:
COPY G:\TS\TSADD.ADD D:
COPY G:\TS\TSUB.SUB D:
COPY G:\TS\TS189R1.SUB D:
COPY G:\TS\TS189R2.SUB D:
COPY G:\TS\TS189R3.SUB D:
COPY G:\TS\TS189R4.SUB D:
COPY G:\TS\TSUBSET.EXE D:
COPY G:\TS\TSORDER.BSS D:
COPY G:\TS\TEMP.MNU D:TE
COPY G:\TS\%1.MNU D:TC
COPY G:\TS\TS2PRN.EXE D:
COPY G:\TS\PRN2TS.EXE D:
COPY D:%1.TS D:TEMP.TS
ERASE D:%1.TS
D:
TSADD 189ADD
TSUB 189RW
TSUB 189R1
TSUB 189R2
TSUB 189R3
TSUB 189R4
TSUBSET 189ORDER.BSS
TS2PRN TEMP
ERASE TEMP.TS
ECHO %1 >TP
COPY TP+TC+TE TEMP.MNU
PRN2TS TEMP
COPY TEMP.TS %1.TS
ERASE *.EXE
ERASE *.ADD
ERASE *.SUB
ERASE *.BSS
ERASE *.MNU
ERASE T?
ERASE *.PRN
ERASE TEMP.TS
C:
DIR D:*.*TS
:END ECHO ON
:TSRLOOP

```

```

ECHO OFF
CLS
TSVIEW to SWOPSIM Program for a selected year and model
-----
ECHO TSRLOOP
ECHO NAMECD. CAL files for 143 countries/regions for a
ECHO selected year for large SWOPSIM models.
ECHO REQUIREMENTS
ECHO Batch programs TSRCOM.BAT and TSRCITY.BAT on C:\BATCH
ECHO subdirectory. TS files for commodities in TSRCOM.BAT
ECHO on the TSVIEW drive and subdirectory.
ECHO OUTPUT (D:)
ECHO Set of 143 SWOPSIM country/region files with Supply, Demand,
ECHO Exports, Imports, and Net Trade for selected year for 22 +
ECHO SWOPSIM commodities.
ECHO -----
ECHO COMMAND TSRLOOP YR
ECHO -----
IF FILE%1 == FILE ECHO ERROR = You forgot YEAR digits (e.g. 88); Enter: TSRLOOP
YEAR
IF FILE%1 == FILE GOTO END
IF EXIST C:\BATCH\TSRCOM.BAT GOTO C1
ECHO ERROR = TSRCOM.BAT does not exist on the C:\BATCH subdirectory.
GOTO END
:C1
IF EXIST C:\BATCH\TSRCITY.BAT GOTO C2
ECHO ERROR = TSRCITY.BAT does not exist on the C:\BATCH subdirectory.
GOTO END
:C2
ERASE D:*.*CAL
REM The following lines select the Commodities called from the TS database.
FOR %%C IN (BF PK ML PM PE DM DB DC DP WH CM CG RI SB SM SO OS OM CT SU TB) DO
CALL C:\BATCH\TSRCOM 19%1 %%C
FOR %%C IN (BN CF HS CI PI SI TG) DO CALL C:\BATCH\TSRCOM 19%1 %%C
REM The following lines select the countries/regions for the model WDIR called from
the TS database.
FOR %%C IN (US CN EC WE JP AU NZ SF EE SV CH MX CA AR BZ VE LA) DO CALL
C:\BATCH\TSRCITY %%C WDIR
FOR %%C IN (NG AF EG MP MO ND OS DO TH ML PH SA SK TW EA RW) DO CALL
C:\BATCH\TSRCITY %%C WDIR
REM The following lines select the countries/regions for the model EUYR called from
the TS database.
FOR %%C IN (US CN JP AU NZ DA DE BL DN FR GC IR IT NT PT SP UK WG GD) DO CALL
C:\BATCH\TSRCITY %%C EUYR
FOR %%C IN (AT FN NO SW SZ OM AB BI CZ HU PL RM YU SV TK NF OM R1) DO CALL
C:\BATCH\TSRCITY %%C EUYR
REM The following lines select the countries/regions for the model WHYR called from
the TS database.
FOR %%C IN (US CN EC JP BE CR ES GT HO NI PA BH BA BD CU DR GU HA JM) DO CALL
C:\BATCH\TSRCITY %%C WHYR
FOR %%C IN (MA NN SC ST TT MX AR BZ BO CL CO ED GY PR PE SU UR VE R2) DO CALL
C:\BATCH\TSRCITY %%C WHYR
REM The following lines select the countries/regions for the model ASYR called from
the TS database.
FOR %%C IN (US CN MX CA CO ED PE CL EC WE EE SV CH MN JP NK SK TW BR) DO CALL
C:\BATCH\TSRCITY %%C ASYR

```

```

FOR %XC IN (BU DO KR LO ML PH SN TH VT AH BG ND PK SL AU NZ OA R3) DO CALL
C:\BATCH\TSYRCY %XC AS%1
REM The following lines select the countries/regions for the model AFYR called from
the TS database.
FOR %XC IN (US EC OE AS AL EG LY MC TN CM GH GN IC LB NG SG AW ZR CF) DO CALL
C:\BATCH\TSYRCY %XC AF%1
FOR %XC IN (EP KY SM SD TZ UG AE AG BT LH MG MW MZ WZ ZA ZB SF OF R4) DO CALL
C:\BATCH\TSYRCY %XC AF%1
DIR D:*.CAL/W
:END ECHO ON

```

```

:TSYRCOM
ECHO OFF
CLS
ECHO -----
ECHO TSVIEW to SWOPSIM Program for a selected year
ECHO -----
ECHO TSYRCOM      Program to select a Year (e.g. 1965) for a SWOPSIM
ECHO              Commodity (e.g. BF) for the 143 region SWOPSIM base data
ECHO              set.
ECHO REQUIREMENTS SWOPSIM 143 region TS files on the F:\TS subdirectory.
ECHO OUTPUT       CD.CAL file on the D: drive with the selected year for
ECHO              143 SWOPSIM regions.
ECHO -----
ECHO COMMAND      TSYRCOM YEAR CD
ECHO -----

```

```

IF FILE%1 == FILE ECHO ERROR = You forgot YEAR (e.g. 1965); Enter: TSYRCOM YEAR CD
IF FILE%1 == FILE GOTO END
IF FILE%2 == FILE ECHO ERROR = You forgot Commodity (e.g. BF); Enter" TSYRCOM YEAR
CD

```

```

IF FILE%2 == FILE GOTO END
REM You must have the correct drive and subdirectory location for TSVIEW
IF EXIST G:\TS\%2.TS GOTO C1
ECHO ERROR = %2.TS does not exist on the F:\TS subdirectory!
GOTO END

```

```

:C1
COPY G:\TS\TS2PRN.EXE D:
copy G:\TS\%2.TS D:
D:
TS2PRN %2
ERASE %2.TS
C:
ECHO %2, %1, >D:PRD.TXT
C:\SWOPSIM\RDYEAR
ERASE D:PRD.TXT
ERASE D:%2.PRN
ECHO {MACRO} >D:TEST.XGT
ECHO //IC%2.TXT-R~ >>D:TEST.XGT
ECHO /S%2,A~ >>D:TEST.XGT
ECHO /Q,Y~ >>D:TEST.XGT
CALL SC D:TEST
ERASE D:TEST.XGT
ERASE D:TS2PRN.EXE
ERASE D:%2.TXT

```

```

:END ECHO ON

:TSYRCY
ECHO OFF
CLS
ECHO -----
ECHO TSVIEW to SWOPSIM Program for a commodity and model
ECHO -----
ECHO TSYRCY      Program to select a Country (e.g. US) for a SWOPSIM
ECHO              Commodity update for the model NAME base data.
ECHO REQUIREMENTS SWOPSIM commodity files on D: drive (put there by TSYRCOM)
ECHO              for all SWOPSIM commodities (listed in TSYRCOM)
ECHO              (if files are not there, empty cells will be left).
ECHO              TSDATA.CAL template on TSVIEW subdirectory for format of
ECHO              output.
ECHO OUTPUT      NAME%CD.CAL Country/region file on the D: drive with the
ECHO              selected year for SWOPSIM Commodities for the model NAME.
ECHO -----
ECHO COMMAND      TSYRCY CD NAME
ECHO -----
IF FILE%1 == FILE ECHO ERROR = You forgot 2 letter country/region Code; Enter:
IF FILE%1 == FILE GOTO END
IF FILE%2 == FILE ECHO ERROR = You forgot 4 character model NAME; Enter: TSYRCY CD
NAME
IF FILE%2 == FILE GOTO END
REM Remember to have correct drive and subdirectory for TSVIEW.
IF EXIST G:\TS\TSDATA.CAL GOTO C1
ECHO The TSDATA.CAL template does not exist on the (G:\TS) TSVIEW subdirectory.
GOTO END
:C1
COPY G:\TS\TSDATA.CAL D:
IF EXIST D:%2%1.CAL ERASE D:%2%1.CAL
REM CALL HPLASER SC3
ECHO {MACRO} >D:T.XGT
ECHO {LABEL \T} >>D:T.XGT
ECHO {ONERROR,\C1,Z1} >>D:T.XGT
ECHO /LD:TSDATA,A >>D:T.XGT
ECHO {LABEL \C1} >>D:T.XGT
ECHO =A1-%2%1~ >>D:T.XGT
ECHO =H2~ >>D:T.XGT
REM The following list must contain all of the country codes you want for
REM to include in model NAME base data.
IF %1 == FWD ECHO 3~ >>D:T.XGT
IF %1 == FFG ECHO 4~ >>D:T.XGT
IF %1 == FUS ECHO 5~ >>D:T.XGT
IF %1 == FCN ECHO 6~ >>D:T.XGT
IF %1 == FEC ECHO 7~ >>D:T.XGT
IF %1 == FWE ECHO 8~ >>D:T.XGT
IF %1 == FJP ECHO 9~ >>D:T.XGT
IF %1 == FAU ECHO 10~ >>D:T.XGT
IF %1 == FNZ ECHO 11~ >>D:T.XGT
IF %1 == FSF ECHO 12~ >>D:T.XGT
IF %1 == FEE ECHO 13~ >>D:T.XGT

```



IF FX1 == FSV ECHO 14~ >>D:T.XQT  
IF FX1 == FCH ECHO 15~ >>D:T.XQT  
IF FX1 == FMX ECHO 16~ >>D:T.XQT  
IF FX1 == FCA ECHO 17~ >>D:T.XQT  
IF FX1 == FAR ECHO 18~ >>D:T.XQT  
IF FX1 == FBZ ECHO 19~ >>D:T.XQT  
IF FX1 == FVE ECHO 20~ >>D:T.XQT  
IF FX1 == FLA ECHO 21~ >>D:T.XQT  
IF FX1 == FNG ECHO 22~ >>D:T.XQT  
IF FX1 == FAF ECHO 23~ >>D:T.XQT  
IF FX1 == FEG ECHO 24~ >>D:T.XQT  
IF FX1 == FMP ECHO 25~ >>D:T.XQT  
IF FX1 == FMO ECHO 26~ >>D:T.XQT  
IF FX1 == FND ECHO 27~ >>D:T.XQT  
IF FX1 == FOS ECHO 28~ >>D:T.XQT  
IF FX1 == FDO ECHO 29~ >>D:T.XQT  
IF FX1 == FTH ECHO 30~ >>D:T.XQT  
IF FX1 == FPL ECHO 31~ >>D:T.XQT  
IF FX1 == FPH ECHO 32~ >>D:T.XQT  
IF FX1 == FSA ECHO 33~ >>D:T.XQT  
IF FX1 == FSK ECHO 34~ >>D:T.XQT  
IF FX1 == FTW ECHO 35~ >>D:T.XQT  
IF FX1 == FEA ECHO 36~ >>D:T.XQT  
IF FX1 == FRW ECHO 37~ >>D:T.XQT  
IF FX1 == FDA ECHO 38~ >>D:T.XQT  
IF FX1 == FDE ECHO 39~ >>D:T.XQT  
IF FX1 == FBL ECHO 40~ >>D:T.XQT  
IF FX1 == FDN ECHO 41~ >>D:T.XQT  
IF FX1 == FFR ECHO 42~ >>D:T.XQT  
IF FX1 == FGC ECHO 43~ >>D:T.XQT  
IF FX1 == FIR ECHO 44~ >>D:T.XQT  
IF FX1 == FIT ECHO 45~ >>D:T.XQT  
IF FX1 == FNT ECHO 46~ >>D:T.XQT  
IF FX1 == FPT ECHO 47~ >>D:T.XQT  
IF FX1 == FSP ECHO 48~ >>D:T.XQT  
IF FX1 == FUK ECHO 49~ >>D:T.XQT  
IF FX1 == FWG ECHO 50~ >>D:T.XQT  
IF FX1 == FGD ECHO 51~ >>D:T.XQT  
IF FX1 == FAT ECHO 52~ >>D:T.XQT  
IF FX1 == FFN ECHO 53~ >>D:T.XQT  
IF FX1 == FNO ECHO 54~ >>D:T.XQT  
IF FX1 == FSW ECHO 55~ >>D:T.XQT  
IF FX1 == FSZ ECHO 56~ >>D:T.XQT  
IF FX1 == FOW ECHO 57~ >>D:T.XQT  
IF FX1 == FAB ECHO 58~ >>D:T.XQT  
IF FX1 == FBI ECHO 59~ >>D:T.XQT  
IF FX1 == FCZ ECHO 60~ >>D:T.XQT  
IF FX1 == FNU ECHO 61~ >>D:T.XQT  
IF FX1 == FPL ECHO 62~ >>D:T.XQT  
IF FX1 == FRM ECHO 63~ >>D:T.XQT  
IF FX1 == FYU ECHO 64~ >>D:T.XQT  
IF FX1 == FTK ECHO 65~ >>D:T.XQT  
IF FX1 == FNF ECHO 66~ >>D:T.XQT  
IF FX1 == FOM ECHO 67~ >>D:T.XQT

IF FX1 == FR1 ECHO 68~ >>D:T.XQT  
IF FX1 == FBE ECHO 69~ >>D:T.XQT  
IF FX1 == FCR ECHO 70~ >>D:T.XQT  
IF FX1 == FES ECHO 71~ >>D:T.XQT  
IF FX1 == FGT ECHO 72~ >>D:T.XQT  
IF FX1 == FHO ECHO 73~ >>D:T.XQT  
IF FX1 == FNI ECHO 74~ >>D:T.XQT  
IF FX1 == FPA ECHO 75~ >>D:T.XQT  
IF FX1 == FBH ECHO 76~ >>D:T.XQT  
IF FX1 == FBA ECHO 77~ >>D:T.XQT  
IF FX1 == FBD ECHO 78~ >>D:T.XQT  
IF FX1 == FCU ECHO 79~ >>D:T.XQT  
IF FX1 == FDR ECHO 80~ >>D:T.XQT  
IF FX1 == FGU ECHO 81~ >>D:T.XQT  
IF FX1 == FHA ECHO 82~ >>D:T.XQT  
IF FX1 == FJM ECHO 83~ >>D:T.XQT  
IF FX1 == FMA ECHO 84~ >>D:T.XQT  
IF FX1 == FNN ECHO 85~ >>D:T.XQT  
IF FX1 == FSC ECHO 86~ >>D:T.XQT  
IF FX1 == FST ECHO 87~ >>D:T.XQT  
IF FX1 == FTT ECHO 88~ >>D:T.XQT  
IF FX1 == FBO ECHO 89~ >>D:T.XQT  
IF FX1 == FCL ECHO 90~ >>D:T.XQT  
IF FX1 == FCO ECHO 91~ >>D:T.XQT  
IF FX1 == FED ECHO 92~ >>D:T.XQT  
IF FX1 == FGY ECHO 93~ >>D:T.XQT  
IF FX1 == FPR ECHO 94~ >>D:T.XQT  
IF FX1 == FPE ECHO 95~ >>D:T.XQT  
IF FX1 == FSU ECHO 96~ >>D:T.XQT  
IF FX1 == FUR ECHO 97~ >>D:T.XQT  
IF FX1 == FR2 ECHO 98~ >>D:T.XQT  
IF FX1 == FMN ECHO 99~ >>D:T.XQT  
IF FX1 == FMK ECHO 100~ >>D:T.XQT  
IF FX1 == FBR ECHO 101~ >>D:T.XQT  
IF FX1 == FBU ECHO 102~ >>D:T.XQT  
IF FX1 == FKR ECHO 103~ >>D:T.XQT  
IF FX1 == FLO ECHO 104~ >>D:T.XQT  
IF FX1 == FSN ECHO 105~ >>D:T.XQT  
IF FX1 == FVT ECHO 106~ >>D:T.XQT  
IF FX1 == FAH ECHO 107~ >>D:T.XQT  
IF FX1 == FBG ECHO 108~ >>D:T.XQT  
IF FX1 == FPK ECHO 109~ >>D:T.XQT  
IF FX1 == FSL ECHO 110~ >>D:T.XQT  
IF FX1 == FOA ECHO 111~ >>D:T.XQT  
IF FX1 == FR3 ECHO 112~ >>D:T.XQT  
IF FX1 == FOE ECHO 113~ >>D:T.XQT  
IF FX1 == FAS ECHO 114~ >>D:T.XQT  
IF FX1 == FAL ECHO 115~ >>D:T.XQT  
IF FX1 == FLY ECHO 116~ >>D:T.XQT  
IF FX1 == FMC ECHO 117~ >>D:T.XQT  
IF FX1 == FTM ECHO 118~ >>D:T.XQT  
IF FX1 == FCM ECHO 119~ >>D:T.XQT  
IF FX1 == FGH ECHO 120~ >>D:T.XQT  
IF FX1 == FGN ECHO 121~ >>D:T.XQT

```

IF FILEX1 == FILE GOTO END
IF FILEX2 == FILE ECHO ERROR = You forgot country Code; Enter: ADJUST NAME CD
IF FILEX2 == FILE GOTO END
IF EXIST C:\X1\X1tX2.CAL GOTO C1
ECHO You have not created the C:\X1\X1tX2.CAL base data file yet!
GOTO END
:C1
IF EXIST D:TEST.XQT ERASE D:TEST.XQT
IF EXIST D:A.PRN ERASE D:A.PRN
IF EXIST D:X1tX2.CAL ERASE D:X1tX2.CAL
COPY C:\X1\X1tX2.CAL D:B.CAL
COPY C:\X1\X1.CAL D:A.CAL
COPY C:\SWOPSIM\ADJUSTT.CAL D:
REM The following statements write the SC5 macro to adjust the base data file.
ECHO {MACRO}/LD:A,R-/OFD:A-R-RB3:AP3-OBNOQGG->> D:TEST.XQT
ECHO /LD:ADJUSTT,R->> D:TEST.XQT
ECHO {CALC}>>D:TEST.XQT
ECHO //ITD:A-P1-AA1-/FEAA1,TL->> D:TEST.XQT
ECHO {LET Y2,X2}>> D:TEST.XQT
ECHO {CALC}>> D:TEST.XQT
REM IF YOUR FILE IS MORE THAN 32 ROWS, ADJUST THE FOLLOWING STATEMENT
ECHO /SD:X1tX2-PVA1:132->> D:TEST.XQT
REM -----
ECHO /Q,Y->>D:TEST.XQT
CALL C:SC D:TEST
IF EXIST D:TEST.XQT ERASE D:TEST.XQT
IF EXIST D:X1.CAL ERASE D:X1.CAL
IF EXIST D:B.CAL ERASE D:B.CAL
IF EXIST D:A.CAL ERASE D:A.CAL
IF EXIST D:A.PRN ERASE D:A.PRN
IF EXIST D:ADJUSTT.CAL ERASE D:ADJUSTT.CAL
CLS
DIR D:??????.CAL/W
:END ECHO ON

:TBALANCE
ECHO OFF
CLS
ECHO -----
ECHO SWOPSIM program to BALANCE the RW "t" data file
ECHO -----
ECHO EOUT Program to adjust base data in the RW "t" file to balance
ECHO the trade in the world model NAME.
ECHO REQUIREMENTS Country model "t" file (NAMEtRW.CAL) containing base data
ECHO and all other "t" files on the model subdirectory.
ECHO OUTPUT (D:) Adjusted base data NAMEtRW.CAL file with balanced world
ECHO trade.
ECHO -----
ECHO COMMAND TBALANCE NAME
ECHO -----
IF FILEX1 == FILE ECHO ERROR = You forgot model NAME; Enter: TBALANCE NAME
IF FILEX1 == FILE GOTO END
IF EXIST C:\X1\X1tRW.CAL GOTO C1
ECHO You have not created the C:\X1\X1tRW.CAL base data file yet!

```

```

IF Fx1 == FIC ECHO 122~>>D:T.XQT
IF Fx1 == FLB ECHO 123~>>D:T.XQT
IF Fx1 == FSG ECHO 124~>>D:T.XQT
IF Fx1 == FZR ECHO 125~>>D:T.XQT
IF Fx1 == FAW ECHO 126~>>D:T.XQT
IF Fx1 == FCF ECHO 127~>>D:T.XQT
IF Fx1 == FEP ECHO 128~>>D:T.XQT
IF Fx1 == FKY ECHO 129~>>D:T.XQT
IF Fx1 == FSM ECHO 130~>>D:T.XQT
IF Fx1 == FSD ECHO 131~>>D:T.XQT
IF Fx1 == FTZ ECHO 132~>>D:T.XQT
IF Fx1 == FUG ECHO 133~>>D:T.XQT
IF Fx1 == FAE ECHO 134~>>D:T.XQT
IF Fx1 == FAG ECHO 135~>>D:T.XQT
IF Fx1 == FBT ECHO 136~>>D:T.XQT
IF Fx1 == FLH ECHO 137~>>D:T.XQT
IF Fx1 == FMG ECHO 138~>>D:T.XQT
IF Fx1 == FMW ECHO 139~>>D:T.XQT
IF Fx1 == FMZ ECHO 140~>>D:T.XQT
IF Fx1 == FWZ ECHO 141~>>D:T.XQT
IF Fx1 == FZA ECHO 142~>>D:T.XQT
IF Fx1 == FZB ECHO 143~>>D:T.XQT
IF Fx1 == FOF ECHO 144~>>D:T.XQT
IF Fx1 == FR4 ECHO 145~>>D:T.XQT
ECHO =A1->>D:T.XQT
ECHO {CALC}-(CALC)->>D:T.XQT
ECHO /SD:X2tX1,PVA1:H40->>D:T.XQT
REM ECHO /OPGQ->>D:T.XQT
ECHO /Q,Y>>D:T.XQT
ECHO {MACRO}>>D:T.XQT
ECHO //MRT,22,A->>D:TC.XQT
ECHO {INVOKE} \T->>D:TC.XQT
CALL SC D:TC
ERASE D:T.XQT
ERASE D:TC.XQT
ERASE D:TSDATA.CAL
:END ECHO ON

:ADJUSTT
ECHO OFF
CLS
ECHO -----
ECHO SWOPSIM program to ADJUST the base data "t" file
ECHO -----
ECHO EOUT Program to adjust base data in "t" file for balanced trade
ECHO and minimal supply/demand data, consistent with the master
ECHO model file (NAME.CAL) for the selected country Code.
ECHO REQUIREMENTS Country model "t" file (NAMEtCD.CAL) containing base data
ECHO on the model subdirectory.
ECHO OUTPUT (D:) Adjusted base data file.
ECHO -----
ECHO COMMAND ADJUSTT NAME CD
ECHO -----
IF FILEX1 == FILE ECHO ERROR = You forgot model NAME; Enter: ADJUSTT NAME CD

```

```

GOTO END
:C1
IF EXIST C:\SWOPSIM\TBALANCE.CAL GOTO C2
ECHO You do not have the C:\SWOPSIM\TBALANCE.CAL file.
GOTO END
:C2
IF EXIST C:\BATCH\X1LOOP.BAT GOTO C3
ECHO You do not have the C:\BATCH\X1LOOP.CAL file.
GOTO END
:C3
IF EXIST D:T7.XQT ERASE D:T7.XQT
IF EXIST D:T.CAL ERASE D:T.CAL
COPY D:\X1\X1T7?.CAL D:
COPY D:\X1TRW.CAL D:B.CAL
COPY C:\SWOPSIM\TBALANCE.CAL D:
REM The following statements write the SC5 macro to adjust the base data file.
ECHO {MACRO}(LET D3,0) > D:T1.XQT
ECHO /CD3,D4:D100~ >> D:T1.XQT
ECHO /SD:T,A~/Q,Y~ >> D:T1.XQT
CALL SC D:T1
ERASE D:T1.XQT
CALL %1LOOP TBAL
ECHO {MACRO}/LD:TBALANCE,R~ >> D:T1.XQT
ECHO {CALC} >> D:T1.XQT
REM IF YOUR t FILE IS MORE THAN 32 ROWS, ADJUST THE FOLLOWING STATEMENT
ECHO /SD:%1TRW-PVA1:I32~ >> D:T1.XQT
REM -----
ECHO /Q,Y~ >> D:T1.XQT
ERASE D:\X1T7?.CAL
CALL C:SC D:T1
ERASE D:T1.XQT
IF EXIST D:T.CAL ERASE D:T.CAL
IF EXIST D:B.CAL ERASE D:B.CAL
IF EXIST D:TBALANCE.CAL ERASE D:TBALANCE.CAL
CLS
DIR D:??????.CAL/W
:END ECHO ON

```

```

:FEEDCHCK
ECHO OFF
CLS
ECHO -----
ECHO FEEDCHCK      Program to calculate some implied feed ratios and allow
ECHO              the user to enter new product feed share ratios for
ECHO              an automatic calculation of new feed shares for each
ECHO              animal product. Some alternative cross price elasticity
ECHO              calculations for feed demand are also made. The FEEDCHCK
ECHO              spreadsheet can be printed out or saved on D:
ECHO REQUIREMENTS A C:\NAME subdirectory must contain the country model
ECHO              file for the country CD (NAMEBCD.CAL).
ECHO OUTPUT (D:)  CDFEED.CAL file of values and either a printout or
ECHO              an ASCII file CDFEED.PRN.

```

```

ECHO -----
ECHO COMMAND      FEEDCHCK NAME CD P (or F)
ECHO -----
IF FILE%1 == FILE ECHO ERROR = You forgot model NAME; Enter: FEEDCHCK NAME CD P (or
F)
IF FILE%1 == FILE GOTO END
IF FILE%2 == FILE ECHO ERROR = You forgot the county CoDe; Enter: FEEDCHCK NAME CD
P (or F)
IF FILE%2 == FILE GOTO END
IF FILE%3 == FILE ECHO ERROR = You forgot the Print (or File) letter; Enter:
FEEDCHCK NAME CD P (or F)
IF FILE%3 == FILE GOTO END
IF EXIST C:\%1\%1b%2.CAL GOTO C1
ECHO ERROR = C:\%1\%1b%2.CAL does not exist!
GOTO END
:C1
IF EXIST C:\SWOPSIM\FEEDCHCK.CAL GOTO C2
ECHO ERROR = C:\SWOPSIM\FEEDCHCK.CAL does not exist!
GOTO END
:C2
IF EXIST D:FEEDCHCK.CAL ERASE D:FEEDCHCK.CAL
IF EXIST D:FEEDCHCK.CAL ERASE D:B.CAL
IF EXIST D:%2FEED.CAL ERASE D:%2FEED.CAL
IF EXIST D:%2FEED.PRN ERASE D:%2FEED.PRN
IF FILE%3 == FILE CALL HPLASER LANDSMAL
COPY C:\%1\%1b%2.CAL D:B.CAL
COPY C:\SWOPSIM\FEEDCHCK.CAL D:
ECHO {MACRO} > D:T.XQT
ECHO /LFEEDCHCK,R~ >> D:T.XQT
ECHO =A1~ >> D:T.XQT
ECHO {CALC} >> D:T.XQT
ECHO {MESSAGE "Hit F8 to Resume Execution!"} >> D:T.XQT
ECHO =O1~U15~ >> D:T.XQT
ECHO {RIGHT 3}<LEFT 3> >> D:T.XQT
ECHO {SUSPEND} >> D:T.XQT
ECHO =L1~N11~ >> D:T.XQT
ECHO {SUSPEND} >> D:T.XQT
ECHO {CALC} >> D:T.XQT
IF FILE%3 == FILEF GOTO C3
ECHO /OPG,PQ~ >> D:T.XQT
GOTO C4
:C3
ECHO /OF%2FEED,GQ~ >> D:T.XQT
:C4
ECHO /%2FEED~V~ >> D:T.XQT
ECHO /Q,Y~ >> D:T.XQT
CALL SC D:T
ERASE D:T.XQT
ERASE D:B.CAL
ERASE D:FEEDCHCK.CAL
DIR D:/W
:END ECHO ON

```





```

ECHO (LET X26,ROUND(B!S61,2))/CX26,S37,V-/FES37,$- >>D:T.XQT
ECHO (LET X26,ROUND(B!S62,2))/CX26,S38,V-/FES38,$- >>D:T.XQT
ECHO (LET X26,ROUND(B!S63,2))/CX26,S39,V-/FES39,$- >>D:T.XQT
ECHO (LET X26,ROUND(B!S64,2))/CX26,S42,V-/FES42,$- >>D:T.XQT
ECHO /BX26:Y26-(CALC) >>D:T.XQT
ECHO (MESSAGE "Hit F8 to Resume Execution!") >>D:T.XQT
ECHO =O3--P18-(SUSPEND)=S21-(SUSPEND)=X3-(SUSPEND) >>D:T.XQT
ECHO =AK26--A033-(SUSPEND)=A037-(SUSPEND)=A038-(SUSPEND)=A039-(SUSPEND) >>D:T.XQT
ECHO =A042-(SUSPEND)=A045-(SUSPEND)(CALC) >>D:T.XQT
ECHO (SUSPEND)=K26--K37-(SUSPEND) >>D:T.XQT
ECHO (CALC)=G1--H10-(SUSPEND)(CALC)=A1~ >> D:T.XQT
ECHO /S%1BX2,0~ >>D:T.XQT
ECHO /Q,Y~ >>D:T.XQT
CALL SC D:T
ERASE D:T.XQT
ERASE D:B.CAL
DIR D://M
:END ECHO ON

```









My



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